



FLORENCE COPPER INC.
1575 W. Hunt Highway, Florence, Arizona 85132 USA
florencecopper.com

July 28, 2020

U.S. Environmental Protection Agency, Region 9
Drinking Water Protection Section (WTR 3-2)
75 Hawthorne Street
San Francisco, California 94105

Attention: David Albright, Manager, Ground Water Office

Subject: Second Quarter 2020 Monitoring Report
Underground Injection Control (UIC) Permit No. R9UIC-AZ3-FY11-1

Dear Mr. Albright:

Florence Copper Inc. (Florence Copper) is regulated under UIC Permit No. R9UIC-AZ3-FY11-1, issued December 20, 2016, for a Production Test Facility (PTF). The facility began active operations on December 15, 2018. The rinsing demonstration for the PTF began on June 26, 2020. This report outlines the reporting requirements in accordance with Part II.G.2 of that Permit.

Background Information

The Florence Copper Project is an in-situ copper extraction facility subject to three related permits issued by the U.S. Environmental Protection Agency (USEPA) and the Arizona Department of Environmental Quality (ADEQ).

Aquifer Protection Permit (APP) Covering the 1997-98 BHP Pilot Facilities and Future Operations (Sitewide APP):

- ADEQ APP No. P-101704 (LTF 65804) dated October 13, 2017.

A test wellfield, a small leachate processing facility, and a double-lined evaporation pond were constructed as authorized by APP No. P-101704 in 1997. The Pilot Test Facility operated from October 31, 1997 to February 9, 1998. The test wellfield was rinsed until September 1, 2004. Cessation of hydraulic control for testing was approved by both agencies and the wellfield has since remained inactive. Subsequently, no Sitewide permit-related activities have taken place. The authorized facilities and monitoring wells are identified on Figure 1.

Permits Covering the Current Production Test Facility:

- ADEQ Temporary APP No. P-106360 (LTF 80030) dated February 13, 2020; and
- USEPA UIC Permit No. R9UIC-AZ3-FY11-1 dated December 20, 2016.

These permits authorize operation of the PTF and set forth separate monitoring requirements to be applied at the PTF, which lies within the area covered by the Sitewide APP. The Temporary APP and UIC facilities and monitoring wells are identified on Figure 1. The configuration of the PTF wellfield is shown on Figure 2. The

facility received authorization to proceed with pre-operational activities on July 13, 2017, and the PTF wellfield was completed and began operations on December 15, 2018. The rinsing demonstration for the PTF began on June 26, 2020 when Florence Copper discontinued addition of acid to the raffinate. During the initial portion of the rinsing demonstration, process solutions continue to be processed through the Solvent Extraction/Electrowinning (SX/EW) plant to produce copper.

This report documents monitoring activities required by the UIC permit during second quarter (Q2) 2020. Reporting for the Sitewide and Temporary APP is performed separately; however, some information pertains to multiple permits and is reported accordingly.

PTF Operations Quarterly Reporting

- **Part II.G.2.a – Map of Operational Status and Groundwater Contours**

The monthly groundwater contour maps are included as Attachment 1. The operational status of the PTF facility was ACTIVE during Q2 2020.

- **Part II.G.2.b – Table and Graphs of Injected and Recovered Volumes**

The daily cumulative injection and recovery volumes, and the daily percent recovery to injection volume values, are provided in tabular and graphical format in Attachment 2. Throughout Q2 2020, the extracted volume has consistently exceeded the injected volume by 10 percent or more.

- **Part II.G.2.c – Table and Graphs of the Well Head Measurements in the PTF**

The daily average head measurement values for the observation wells and recovery wells are provided in tabular and graphical format in Attachment 3. The hydraulic gradient has been maintained with a greater than 1-foot differential as a daily average for all paired wells throughout Q2 2020.

- **Part II.G.2.d – Table and Graphs of Fluid Electrical Conductivity Measurements**

Fluid electrical conductivity (EC) values are provided in tabular and graphical format in Attachment 4. There were no instances where observation well measurements were greater than injection well measurements during Q2 2020. As expected, fluid EC in the injection wells decreased significantly after June 26, 2020, when addition of acid to the raffinate was discontinued.

- **Part II.G.2.e – Table and Graphs of Bulk Electrical Conductivity Measurements**

Bulk EC values are provided in tabular and graphical format in Attachment 5. No bulk EC alert level (AL) exceedances occurred during Q2 2020.

- **Part II.G.2.f – Table and Graphs of Monitor Well Water Levels and Analytical Results**

The Q2 2020 Compliance Monitoring Report is provided in Attachment 6 and presents the tabular results of groundwater elevations, analytical results, field parameters, and ALs and aquifer quality limits for wells regulated under the UIC permit and Temporary APP. The Compliance Monitoring Report also provides a narrative summary of the Q2 2020 monitoring activities, a discussion of exceedances, and graphical presentation of monitoring results for a select set of parameters since the inception of monitoring.

- **Part II.G.2.g – Results of Monthly Lixiviant Organic Analysis**

The analytical results for monthly lixiviant organic analysis are provided in tabular format in Attachment 7. The monthly organic concentrations were below the AL throughout Q2 2020.

- **Part II.G.2.h – Results of Monitoring Required if Injection Fluid is Modified**

No modifications were made to the injection fluid composition prior to the commencement of the rinsing demonstration on June 26, 2020. Beginning on June 26, 2020, the addition of acid to the raffinate was discontinued. During this initial rinsing demonstration phase, process solution continues to flow through the SX/EW plant, reducing both the free acid and sulfate load in the formation while facilitating the continued removal of dissolved constituents. Routine monthly analysis of the raffinate will continue during the rinsing demonstration.

- **Part II.G.2.i – Results of Mechanical Integrity Testing**

Temperature logging of multi-level sampling wells WB-01, WB02, WB-03, and WB-04 was conducted during Q2 2020 to demonstrate mechanical integrity. A summary of results is provided in Attachment 8. Temperature logs in each of the four wells showed no anomalies that would indicate there is flow behind the well casings. A report discussing the temperature logging of the wells has been provided to the USEPA under separate cover.

- **Part II.G.2.j – Results of Annular Conductivity Device (ACD) Monitoring**

The results of the Q2 2020 well bore annular EC monitoring are provided in Attachment 9. Annular EC readings have remained approximately constant or increased slightly in 8 of the 11 wells since monitoring began in Q3 2018. Annular EC has decreased in wells O-04, O-06, and WB-01 during that same time. The results of the monitoring indicate the absence of injected fluid at the ACD locations.

- **Part II.G.2.k – Summary of Plugging and Abandonment Activity**

No plugging or abandonment activity was performed during Q2 2020.

- **Part II.G.2.l – Summary of Closure Operations**

No closure operations were conducted during Q2 2020.

- **Part II.G.2.m – Table of Monthly Casing Annulus and Injection Pressures**

Monthly maximum, minimum, and average injection pressures are provided in Attachment 10. There were no exceedances of the injection pressure limit during Q2 2020.

- **Appendix H – Migratory Bird Landings and Mortality**

Daily inspection of the Process Solution Impoundment was conducted to record any migratory bird landings and/or identify any migratory bird mortality. As summarized in Attachment 11, no landing events or bird mortalities were observed during Q2 2020.

Please contact me at (520) 316-3710 with any questions regarding the content of this document.

Sincerely,
Florence Copper Inc.



Brent Berg
General Manager

Enclosures:

Figure 1 – Groundwater Monitoring Area

Figure 2 – PTF Wellfield

Attachment 1 – Map of Operational Status and Groundwater Contours

Attachment 2 – Table and Graphs of Injected and Recovered Volumes

Attachment 3 – Table and Graphs of the Well Head Measurements in the Production Test Facility

Attachment 4 – Table and Graphs of Fluid Electrical Conductivity Measurements

Attachment 5 – Table and Graphs of Bulk Electrical Conductivity Measurements

Attachment 6 – Table and Graphs of Monitor Well Water Levels and Analytical Results

Attachment 7 – Results of Monthly Lixiviant Organic Analysis

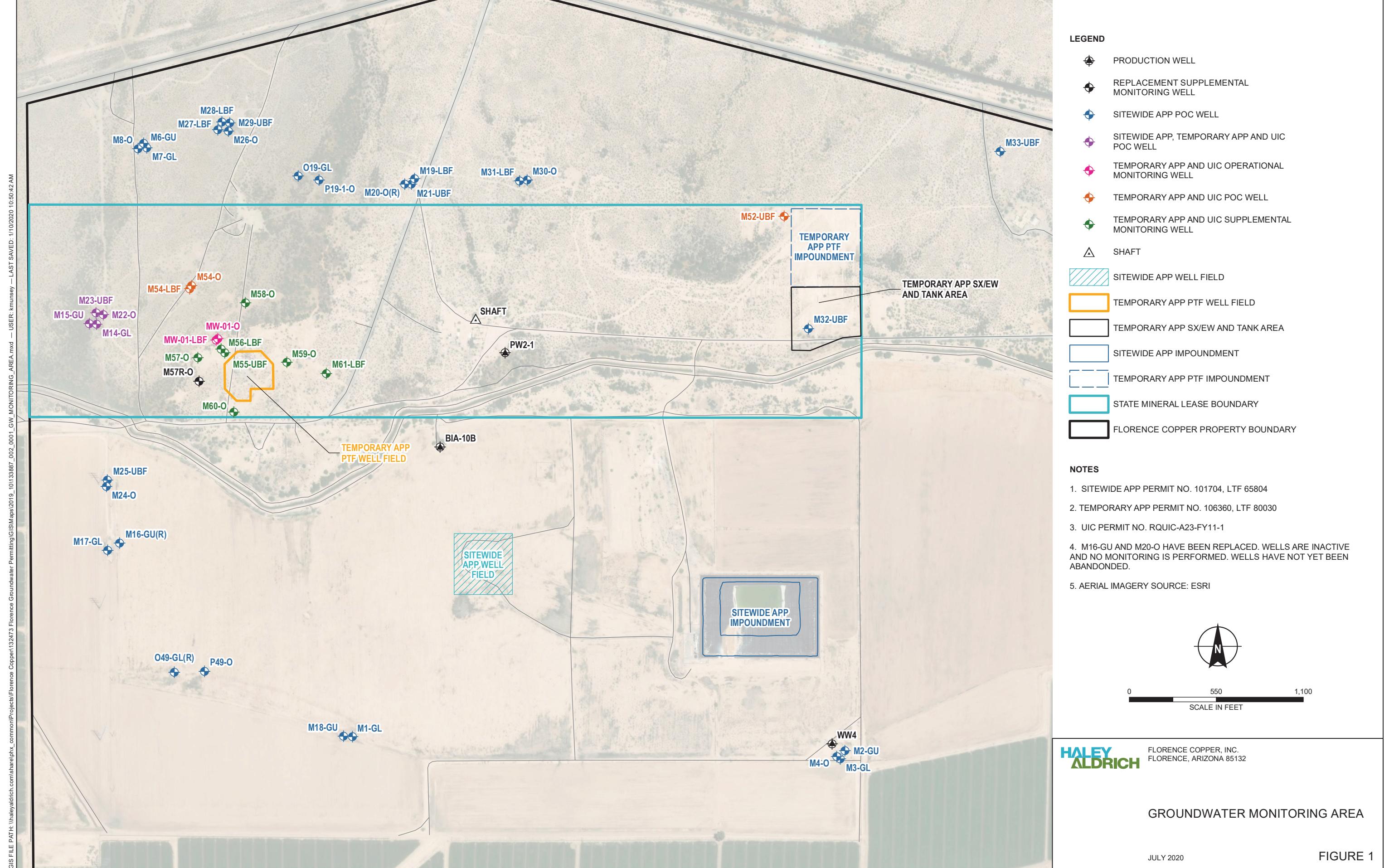
Attachment 8 – Results of Mechanical Integrity Testing

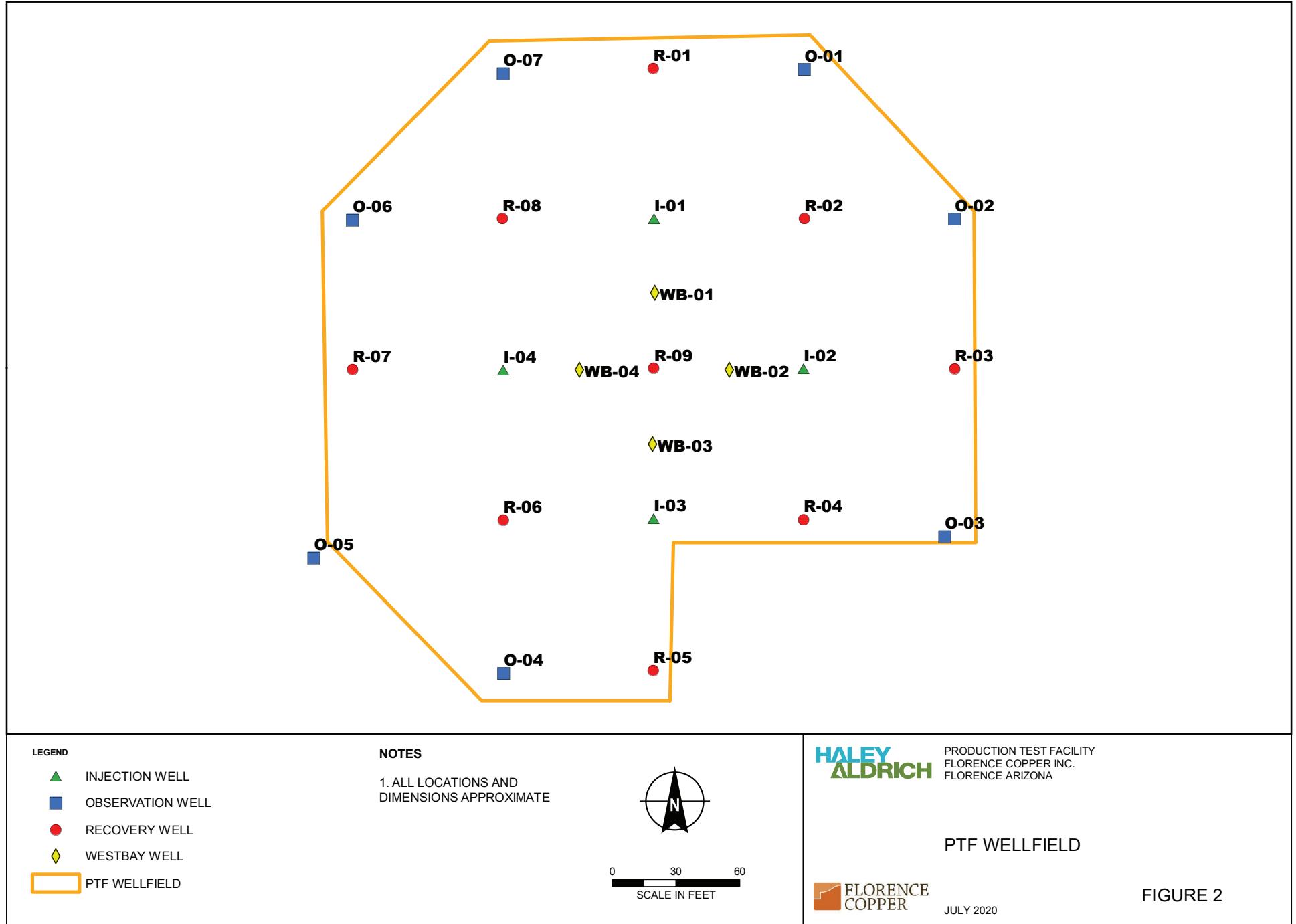
Attachment 9 – Results of Annular Conductivity Device Monitoring

Attachment 10 – Table of Monthly Casing Annulus and Injection Pressures

Attachment 11 – Migratory Bird Landings

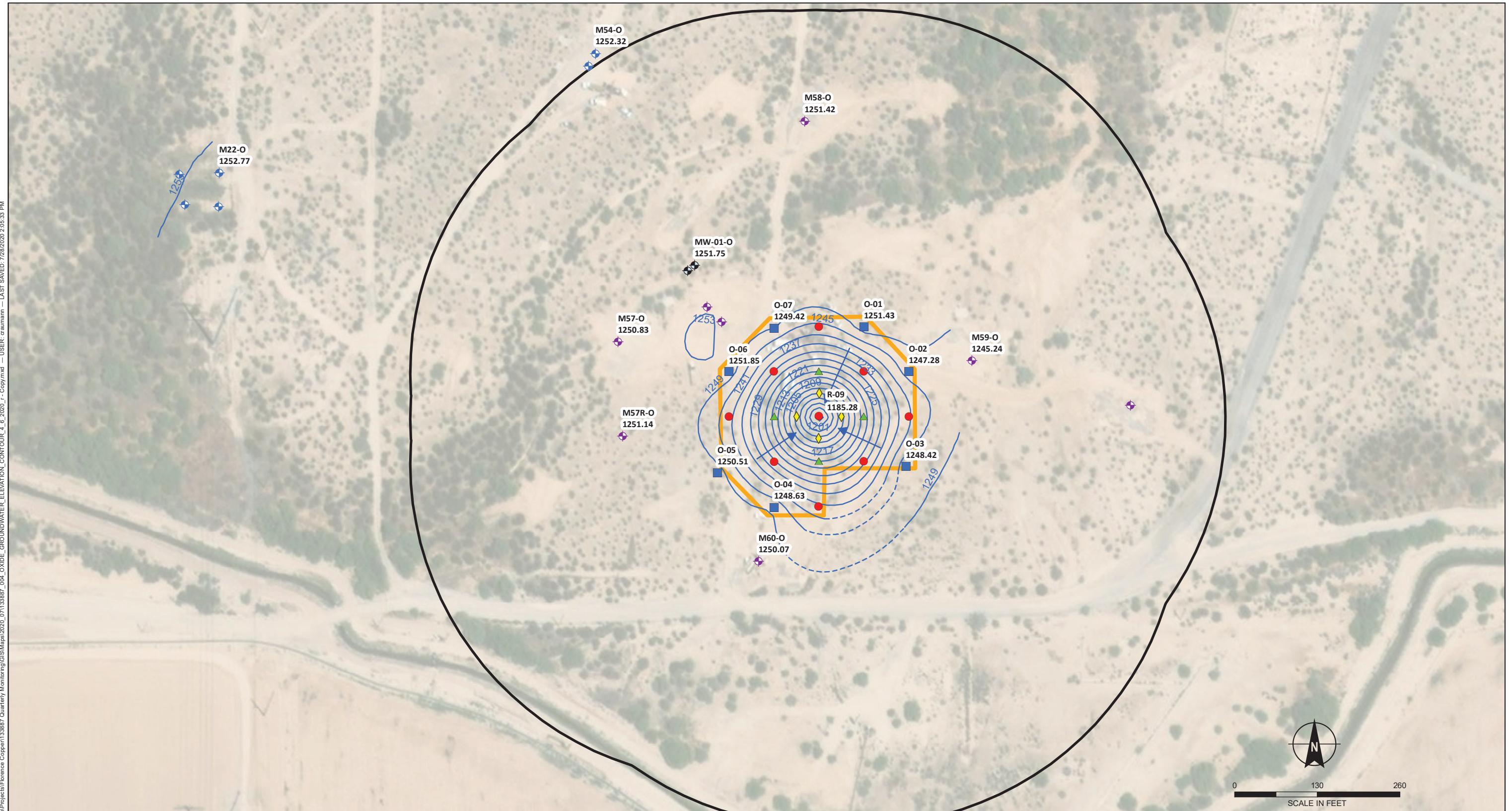
FIGURES





ATTACHMENT 1

Map of Operational Status and Groundwater Contours



CGIS FILE PATH: \\Wklydd1\chris\share\phy-common\Projects\UfOrance\Cooper113987\Quarterly Monitoring\GISMaps\2020_07113987_004_OXIDE_GROUNDWATER_ELEVATION_CONTOUR_4_6_2020_r_Copystarred — USER: c\administrator — LAST SAVED: 7/22/2020 2:05:33 PM

- OBSERVATION WELL
 - ▲ INJECTION WELL
 - RECOVERY WELL
 - ◆ WESTBAY WELL
 - POC WELL
 - SUPPLEMENTAL MONITORING WELL
 - OPERATIONAL MONITORING WELL

APRIL 2020 GROUNDWATER ELEVATION CONTOURS
DASHED WHERE INFERRED

POLLUTANT MANAGEMENT

PTF WELLFIELD

WELL ID
M59-0
1242.3

NOTE

1. ALL LOCATIONS AND DIMENSIONS APPROXIMATE
 2. GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
 3. CONTOUR INTERVAL = 4FT
 4. WATER LEVEL DATA FROM WELLS COLLECTED 4/6/2020
 5. ONLY WELLS COMPLETED IN THE BEDROCK OXIDE THAT HAVE CONTOUR ELEVATIONS LABELED WERE USED IN CONTOURING GROUNDWATER ELEVATIONS

HALEY
ALDRICH

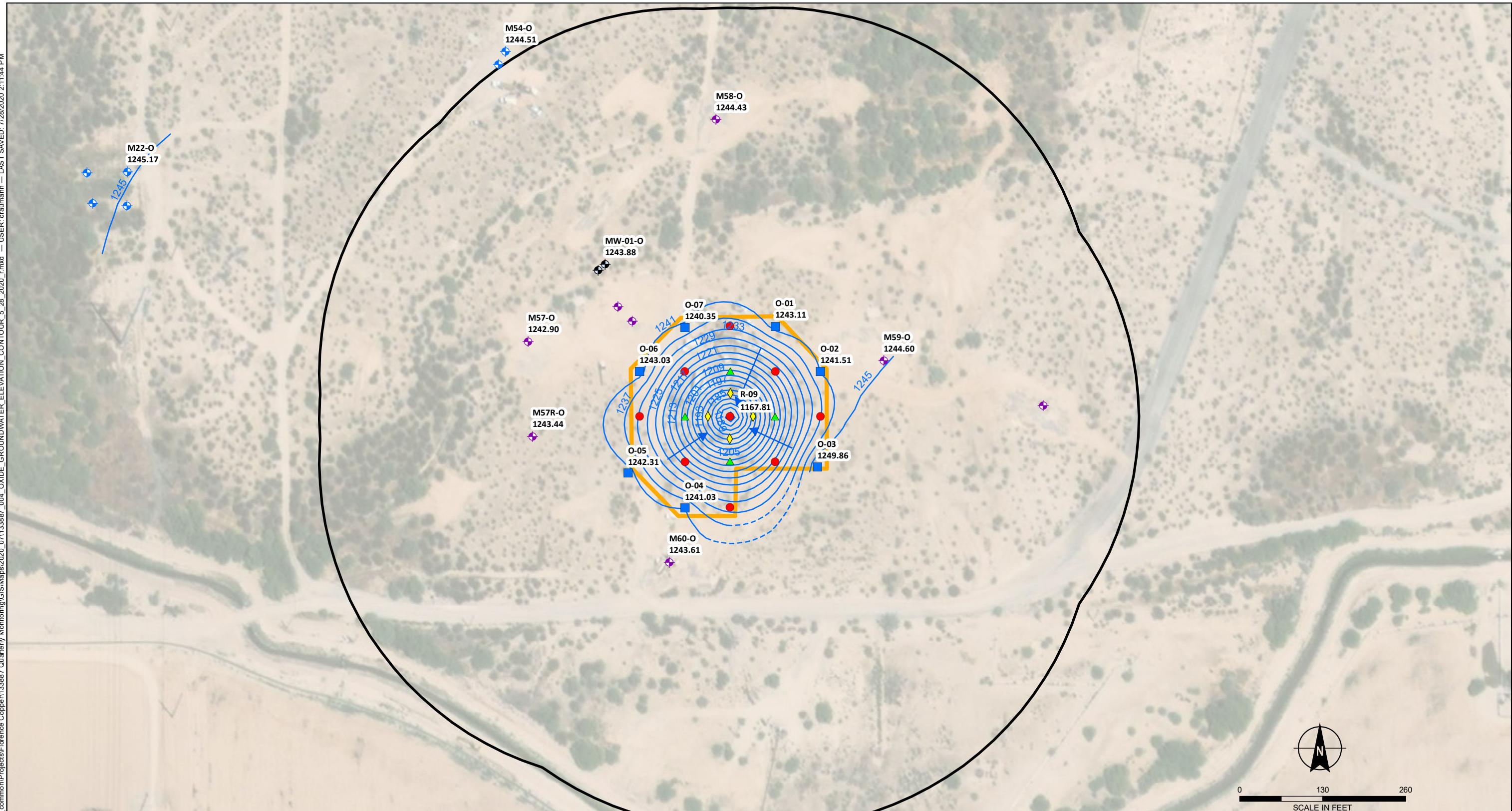
**PRODUCTION TEST FACILITY
FLORENCE COPPER, INC.
FLORENCE, ARIZONA**

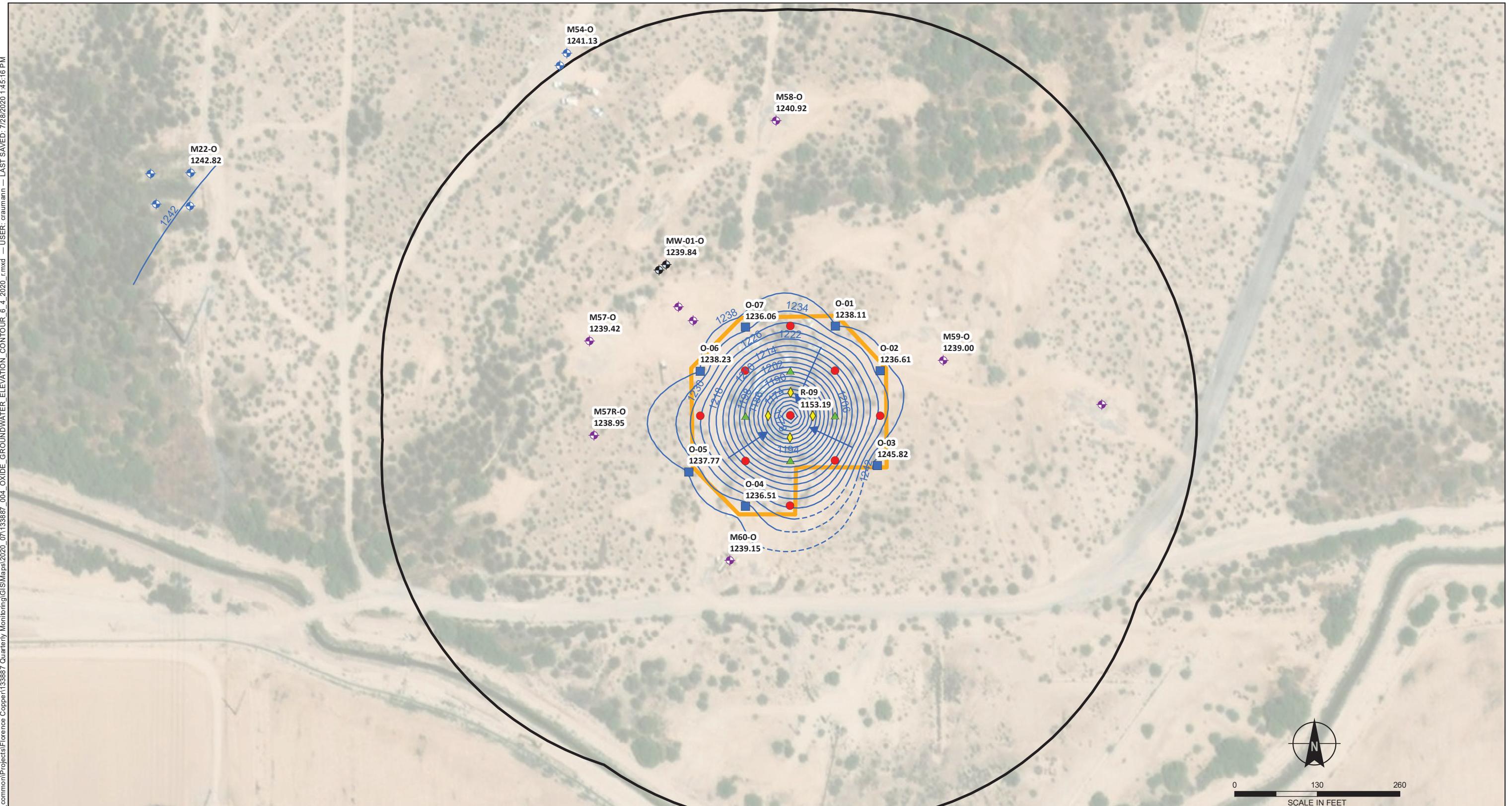
**OXIDE GROUNDWATER
ELEVATION CONTOUR
APRIL 2020**



III.II.Y.2020

FIGURE 1





GIS FILE PATH: \\haleydrich\comshare\haley\common\Projects\Florence_Copper\133887_004_OXIDE_GROUNDWATER ELEVATION CONTOUR_6_4_2020.fmx - USER: crbaumann - LAST SAVED: 7/28/2020 1:45:16 PM

- OBSERVATION WELL
 - ▲ INJECTION WELL
 - RECOVERY WELL
 - ◆ WESTBAY WELL
 - POC WELL
 - SUPPLEMENTAL MONITORING WELL
 - OPERATIONAL MONITORING WELL

JUNE 2020 GROUNDWATER ELEVATION CONTOURS
DASHED WHERE INFERRED

POLLUTANT MANAGEMENT

PTF WELLFIELD

WELL ID
M59-0
1242.35
GROUNDWATER ELEVATION

NOTES

1. ALL LOCATIONS AND DIMENSIONS APPROXIMATE
 2. GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
 3. CONTOUR INTERVAL = 4FT
 4. WATER LEVEL DATA FROM WELLS COLLECTED 6/4/2020
 5. ONLY WELLS COMPLETED IN THE BEDROCK OXIDE THAT HAVE CONTOUR ELEVATIONS LABELED WERE USED IN CONTOURING GROUNDWATER ELEVATIONS

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ALDRICH

PRODUCTION TEST FACILITY
FLORENCE COPPER, INC.
FLORENCE, ARIZONA

OXIDE GROUNDWATER
ELEVATION CONTOUR
JUNE 2020



JULY 2020

FIGURE 3

ATTACHMENT 2

Table and Graphs of Injected and Recovered Volumes

Q2 2020 DAILY INJECTION AND RECOVERY

Page 1 of 3

VOLUMES WITH PERCENT RECOVERY

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 1. April 2020 Daily Injection and Recovery Volumes

Date	Daily Injection Volume (gallons)	Daily Recovery Volume (gallons)	Ratio PLS/Raff	% Recovery
4/1/2020	285,200	317,600	1.11	111
4/2/2020	284,900	317,200	1.11	111
4/3/2020	285,300	316,300	1.11	111
4/4/2020	285,100	317,000	1.11	111
4/5/2020	284,300	316,600	1.11	111
4/6/2020	286,500	317,100	1.11	111
4/7/2020	286,300	317,000	1.11	111
4/8/2020	286,000	317,200	1.11	111
4/9/2020	283,400	316,500	1.12	112
4/10/2020	283,100	317,000	1.12	112
4/11/2020	283,600	317,100	1.12	112
4/12/2020	283,700	315,900	1.11	111
4/13/2020	282,700	316,900	1.12	112
4/14/2020	284,400	314,600	1.11	111
4/15/2020	284,400	317,400	1.12	112
4/16/2020	284,200	316,500	1.11	111
4/17/2020	286,500	316,800	1.11	111
4/18/2020	279,100	308,500	1.11	111
4/19/2020	279,300	316,500	1.13	113
4/20/2020	283,800	317,600	1.12	112
4/21/2020	283,300	318,700	1.12	112
4/22/2020	283,100	317,700	1.12	112
4/23/2020	285,200	319,500	1.12	112
4/24/2020	285,200	317,600	1.11	111
4/25/2020	285,400	317,600	1.11	111
4/26/2020	285,400	317,300	1.11	111
4/27/2020	285,700	316,900	1.11	111
4/28/2020	284,500	317,700	1.12	112
4/29/2020	286,900	319,100	1.11	111
4/30/2020	285,900	317,000	1.11	111
APR Averages	284,413	316,880	1.11	111

APR Averages	Monthly Average Injection Volume (GPM)	Monthly Average Recovery Volume (GPM)
	198	220

Notes:*% = percent**GPM = gallons per minute**PLS = pregnant leach solution**Raff = raffinate*

Q2 2020 DAILY INJECTION AND RECOVERY

Page 2 of 3

VOLUMES WITH PERCENT RECOVERY

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 2. May 2020 Daily Injection and Recovery Volumes

Date	Daily Injection Volume (gallons)	Daily Recovery Volume (gallons)	Ratio PLS/Raff	% Recovery
5/1/2020	285,100	317,400	1.11	111
5/2/2020	284,700	317,500	1.12	112
5/3/2020	282,700	317,000	1.12	112
5/4/2020	284,000	317,500	1.12	112
5/5/2020	286,000	319,800	1.12	112
5/6/2020	283,600	315,300	1.11	111
5/7/2020	280,400	312,000	1.11	111
5/8/2020	298,700	332,800	1.11	111
5/9/2020	308,200	342,900	1.11	111
5/10/2020	308,400	343,300	1.11	111
5/11/2020	308,500	342,300	1.11	111
5/12/2020	308,200	343,100	1.11	111
5/13/2020	308,400	343,200	1.11	111
5/14/2020	308,500	344,600	1.12	112
5/15/2020	308,700	342,800	1.11	111
5/16/2020	308,700	343,700	1.11	111
5/17/2020	308,300	343,200	1.11	111
5/18/2020	308,500	343,000	1.11	111
5/19/2020	307,500	342,200	1.11	111
5/20/2020	306,600	341,400	1.11	111
5/21/2020	308,300	343,100	1.11	111
5/22/2020	308,500	343,200	1.11	111
5/23/2020	308,400	343,200	1.11	111
5/24/2020	308,500	343,100	1.11	111
5/25/2020	308,600	343,300	1.11	111
5/26/2020	308,400	343,400	1.11	111
5/27/2020	308,500	343,200	1.11	111
5/28/2020	308,500	343,200	1.11	111
5/29/2020	309,700	343,000	1.11	111
5/30/2020	308,200	343,200	1.11	111
5/31/2020	308,400	342,800	1.11	111
MAY Averages	302,506	336,765	1.11	111

MAY Averages	Monthly Average Injection Volume (GPM)	Monthly Average Recovery Volume (GPM)
	210	234

Notes:*% = percent**GPM = gallons per minute**PLS = pregnant leach solution**Raff = raffinate*

Q2 2020 DAILY INJECTION AND RECOVERY

Page 3 of 3

VOLUMES WITH PERCENT RECOVERY

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 3. June 2020 Daily Injection and Recovery Volumes

Date	Daily Injection Volume (gallons)	Daily Recovery Volume (gallons)	Ratio PLS/Raff	% Recovery
6/1/2020	314,800	350,900	1.11	111
6/2/2020	321,800	357,100	1.11	111
6/3/2020	323,100	358,900	1.11	111
6/4/2020	322,800	358,900	1.11	111
6/5/2020	323,000	359,000	1.11	111
6/6/2020	322,900	358,900	1.11	111
6/7/2020	322,900	358,700	1.11	111
6/8/2020	330,000	366,700	1.11	111
6/9/2020	338,100	375,200	1.11	111
6/10/2020	342,500	383,000	1.12	112
6/11/2020	352,000	389,100	1.11	111
6/12/2020	351,800	389,500	1.11	111
6/13/2020	351,700	389,300	1.11	111
6/14/2020	351,700	389,000	1.11	111
6/15/2020	351,700	391,800	1.11	111
6/16/2020	350,700	389,300	1.11	111
6/17/2020	351,200	390,100	1.11	111
6/18/2020	351,500	389,300	1.11	111
6/19/2020	351,600	388,300	1.10	110
6/20/2020	351,800	389,400	1.11	111
6/21/2020	351,700	390,000	1.11	111
6/22/2020	351,700	389,080	1.11	111
6/23/2020	351,700	389,300	1.11	111
6/24/2020	351,800	389,100	1.11	111
6/25/2020	351,800	389,400	1.11	111
6/26/2020	351,600	388,800	1.11	111
6/27/2020	351,900	389,400	1.11	111
6/28/2020	350,300	388,400	1.11	111
6/29/2020	351,600	389,100	1.11	111
6/30/2020	351,700	388,600	1.10	110
JUN Averages	343,113	380,453	1.11	111

JUN Averages	Monthly Average Injection Volume (GPM)	Monthly Average Recovery Volume (GPM)
	238	273

Notes:*% = percent**GPM = gallons per minute**PLS = pregnant leach solution**Raff = raffinate*

Figure 1. Injection vs. Recovery Volumes - April

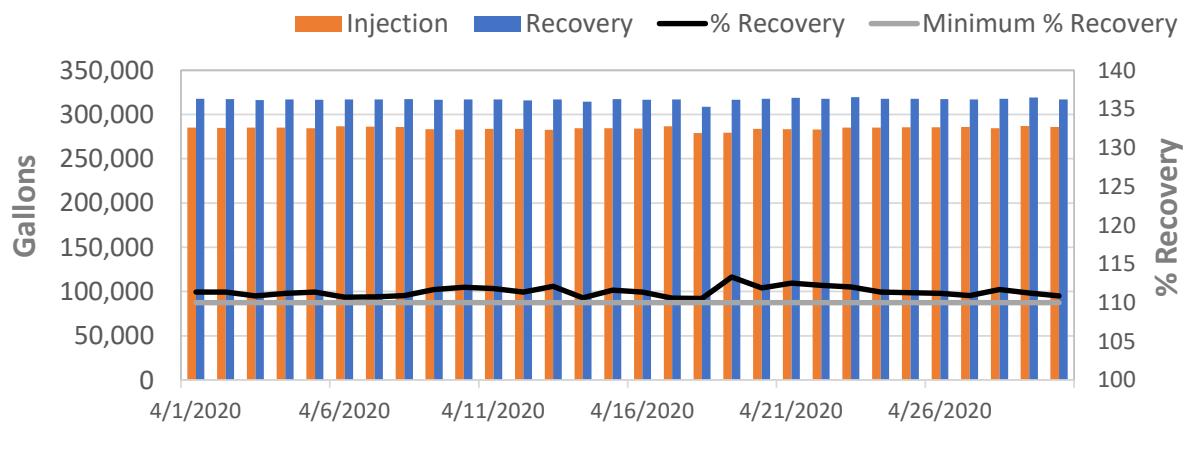


Figure 2. Injection vs. Recovery Volumes - May

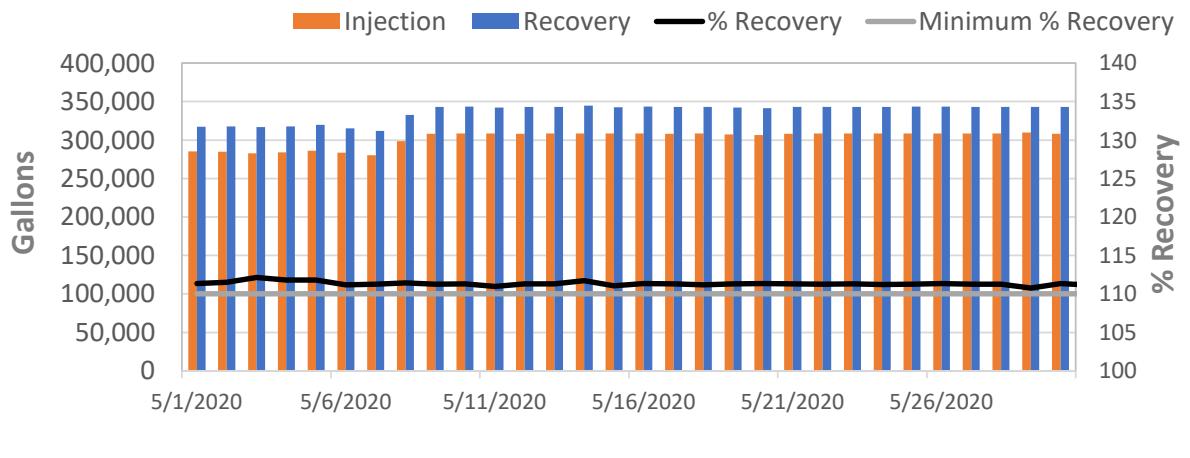
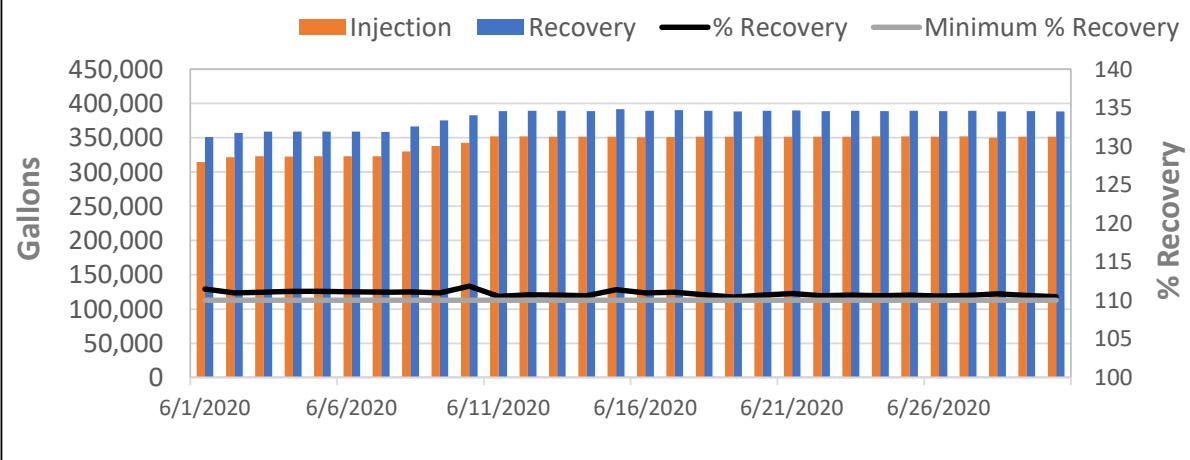


Figure 3. Injection vs. Recovery Volumes - June



ATTACHMENT 3

Table and Graphs of the Well Head Measurements in the Production Test Facility

Q2 2020 HYDRAULIC GRADIENT, DAILY AVERAGE WATER LEVEL ELEVATIONS,
OBSERVATION AND RECOVERY WELLS

FLORENCE COPPER INC.
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Table 1. April 2020 Daily Average Water Level Elevations

Date	R-01	O-01	O-07	R-02	O-01	O-02	R-03	O-02	O-03	R-04	O-03	R-05	O-04	R-06	O-04	O-05	R-07	O-05	O-06	R-08	O-06	O-07	R-09
4/1/2020	1242.78	1252.67	1250.80	1186.70	1252.67	1250.47	1163.79	1250.47	1258.64	NA	1258.64	1164.72	1252.26	1188.48	1252.26	1252.96	1249.82	1252.96	1253.24	1236.06	1253.24	1250.80	1190.32
4/2/2020	1241.05	1250.86	1249.12	1184.45	1250.86	1248.54	1161.19	1248.54	1256.95	NA	1256.95	1164.88	1250.38	1190.23	1250.38	1251.24	1248.22	1251.24	1251.53	1234.92	1251.53	1249.12	1198.28
4/3/2020	1241.52	1251.06	1249.34	1191.15	1251.06	1248.28	1151.07	1248.28	1253.59	1102.41	1253.59	1176.62	1250.18	1191.67	1250.18	1251.23	1248.35	1251.23	1251.84	1238.96	1251.84	1249.34	1191.87
4/4/2020	1241.14	1250.01	1248.74	1191.96	1250.01	1247.11	1144.54	1247.11	1252.01	1098.59	1252.01	1184.13	1249.78	1192.51	1249.78	1250.86	1248.00	1250.86	1251.48	1240.85	1251.48	1248.74	1198.29
4/5/2020	1240.75	1249.69	1248.50	1187.71	1249.69	1246.68	1142.57	1246.68	1251.59	1099.32	1251.59	1180.52	1249.39	1193.48	1249.39	1250.59	1247.71	1250.59	1251.25	1240.07	1251.25	1248.50	1190.56
4/6/2020	1241.85	1251.43	1249.42	1189.62	1251.43	1247.28	1137.61	1247.28	1248.42	1098.51	1248.42	1178.68	1248.63	1192.06	1248.63	1250.51	1248.28	1250.51	1251.85	1241.73	1251.85	1249.42	1185.28
4/7/2020	1241.47	1250.79	1248.78	1186.41	1250.79	1246.53	1139.38	1246.53	1247.64	1098.51	1247.64	1174.67	1248.03	1191.66	1248.03	1249.84	1247.62	1249.84	1251.00	1241.02	1251.00	1248.78	1190.70
4/8/2020	1239.53	1249.07	1246.90	1187.61	1249.07	1244.95	1131.98	1244.95	1246.03	1098.51	1246.03	1173.47	1246.24	1185.84	1246.24	1247.84	1245.50	1247.84	1248.91	1239.04	1248.91	1246.90	1189.35
4/9/2020	1238.24	1247.11	1245.85	1186.12	1247.11	1243.79	1132.33	1243.79	1247.51	1098.51	1247.51	1177.72	1246.14	1184.45	1246.14	1247.51	1244.90	1247.51	1248.13	1238.11	1248.13	1245.85	1188.62
4/10/2020	1235.28	1243.94	1242.95	1180.92	1243.94	1241.04	1127.59	1241.04	1245.71	1098.51	1245.71	1177.44	1243.48	1180.67	1243.48	1244.90	1242.04	1244.90	1245.38	1234.82	1245.38	1242.95	1191.07
4/11/2020	1235.02	1242.68	1241.87	1178.99	1242.68	1239.75	1123.93	1239.75	1243.84	1098.51	1243.84	1164.26	1241.63	1170.72	1241.63	1243.30	1240.58	1243.30	1244.17	1235.29	1244.17	1241.87	1188.73
4/12/2020	1234.85	1242.05	1241.19	1177.37	1242.05	1239.19	1191.26	1239.19	1243.45	1098.51	1243.45	1159.74	1240.72	1171.97	1240.72	1242.48	1239.85	1242.48	1243.52	1235.20	1243.52	1241.19	1187.60
4/13/2020	1234.75	1241.76	1240.82	1175.89	1241.76	1238.66	1150.68	1238.66	1242.23	1098.51	1242.23	1157.74	1239.69	1141.19	1239.69	1241.40	1238.89	1241.40	1242.95	1234.42	1242.95	1240.82	1188.01
4/14/2020	NA	1241.26	1240.22	1176.61	1241.26	1238.21	1151.61	1238.21	1241.79	1098.51	1241.79	1158.51	1239.21	1157.26	1239.21	1240.74	1236.95	1240.74	1242.19	1233.86	1242.19	1240.22	1191.85
4/15/2020	NA	1240.55	1239.44	1174.15	1240.55	1237.60	1161.65	1237.60	1241.71	1098.51	1241.71	1157.96	1238.47	1159.34	1238.47	1239.96	1236.17	1239.96	1241.45	1232.24	1241.45	1239.44	1189.66
4/16/2020	NA	1239.84	1238.68	1177.92	1239.84	1236.87	1158.90	1236.87	1240.54	1105.47	1240.54	1154.90	1237.62	1167.79	1237.62	1239.13	1235.36	1239.13	1240.68	1232.13	1240.68	1238.68	1190.89
4/17/2020	1235.03	1241.86	1240.22	1148.84	1241.86	1238.65	1159.94	1238.65	1241.31	1101.62	1241.31	1134.38	1237.50	1140.70	1237.50	1239.50	1236.42	1239.50	1241.69	1221.30	1241.69	1240.22	1193.55
4/18/2020	1236.49	1242.67	1241.18	1131.58	1242.67	1239.09	1160.54	1239.09	1240.63	1098.58	1240.63	1113.35	1237.14	1132.10	1237.14	1239.81	1237.82	1239.81	1242.98	1218.20	1242.98	1241.18	NA
4/19/2020	1233.29	1238.19	1237.57	1166.07	1238.19	1235.54	1159.65	1235.54	1239.54	1099.86	1239.54	1149.81	1236.47	1159.79	1236.47	1238.33	1234.85	1238.33	1240.34	NA	1240.34	1237.57	1175.75
4/20/2020	1231.83	1238.09	1236.65	1179.56	1238.09	1235.94	1163.53	1235.94	1240.65	1122.86	1240.65	1172.14	1236.83	1177.32	1236.83	1238.04	1234.11	1238.04	1239.17	1217.88	1239.17	1236.65	1173.58
4/21/2020	1230.14	1237.38	1235.89	1182.18	1237.38	1235.12	1162.41	1235.12	1240.65	1128.46	1240.65	1178.83	1236.66	1181.67	1236.66	1237.63	1233.17	1237.63	1238.38	1217.98	1238.38	1235.89	1174.87
4/22/2020	1231.07	1237.53	1235.93	1170.93	1237.53	1235.72	1161.47	1235.72	1241.91	1126.96	1241.91	1178.92	1236.85	1142.65	1236.85	1237.29	1232.63	1237.29	1238.24	1217.47	1238.24	1235.93	1182.55
4/23/2020	1230.46	1237.25	1235.79	1169.96	1237.25	1235.35	1158.92	1235.35	1241.71	1126.76	1241.71	NA	1236.73	1134.92	1236.73	1237.08	1232.27	1237.08	1238.07	1217.80	1238.07	1235.79	1186.46
4/24/2020	1231.09	1237.86	1236.28	1176.23	1237.86	1235.59	1156.42	1235.59	1240.80	1119.22	1240.80	1170.80	1236.39	1160.71	1236.39	1237.41	1233.25						

Q2 2020 HYDRAULIC GRADIENT, DAILY AVERAGE WATER LEVEL ELEVATIONS,
OBSERVATION AND RECOVERY WELLS

FLORENCE COPPER INC.
FLORENCE, ARIZONA

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Table 2. May 2020 Daily Average Water Level Elevations

Date	R-01	O-01	O-07	R-02	O-01	O-02	R-03	O-02	R-04	O-03	R-05	O-04	R-06	O-04	O-05	R-07	O-05	O-06	R-08	O-06	O-07	R-09	
5/1/2020	1231.87	1242.79	1241.29	1183.21	1242.79	1240.51	1176.01	1240.51	1246.37	1133.71	1246.37	1178.80	1241.92	1177.03	1241.92	1242.90	1238.04	1242.90	1243.73	1226.03	1243.73	1241.29	1170.54
5/2/2020	1232.08	1244.45	1243.01	1186.31	1244.45	1242.28	1175.66	1242.28	1248.23	1143.92	1248.23	1185.71	1244.52	1198.41	1244.52	1245.26	1240.24	1245.26	1245.72	1226.94	1245.72	1243.01	1175.50
5/3/2020	1234.21	1245.81	1244.36	1185.49	1245.81	1243.51	1175.25	1243.51	1248.91	1136.17	1248.91	1181.31	1245.30	1211.93	1245.30	1246.19	1241.44	1246.19	1246.93	1227.39	1246.93	1244.36	1175.46
5/4/2020	1237.38	1244.85	1243.12	1187.99	1244.85	1242.91	1174.82	1242.91	1247.53	1153.04	1247.53	1184.82	1244.14	1201.93	1244.14	1245.05	1240.58	1245.05	1245.78	1225.88	1245.78	1243.12	1138.35
5/5/2020	1235.58	1242.23	1239.66	1199.27	1242.23	1240.87	1174.90	1240.87	1245.19	1170.19	1245.19	1186.49	1241.56	1209.75	1241.56	1242.35	1237.23	1242.35	1242.45	NA	1242.45	1239.66	1119.57
5/6/2020	1234.64	1240.06	1237.14	1196.59	1240.06	1238.97	1175.41	1238.97	1245.36	1165.38	1245.36	1182.12	1238.72	1204.20	1238.72	1239.55	1233.86	1239.55	1239.72	NA	1239.72	1237.14	1114.75
5/7/2020	1232.17	1239.08	1236.07	1193.09	1239.08	1238.05	1173.41	1238.05	1245.37	1158.77	1245.37	1181.03	1237.77	1201.73	1237.77	1238.57	1233.30	1238.57	1238.71	NA	1238.71	1236.07	1114.00
5/8/2020	1231.71	1239.94	1236.18	1195.82	1239.94	1239.13	1172.57	1239.13	1247.52	1160.06	1247.52	1183.50	1238.40	1202.13	1238.40	1238.89	1233.25	1238.89	1238.64	1222.12	1238.64	1236.18	1108.50
5/9/2020	1231.75	1241.92	1238.16	1194.65	1241.92	1240.39	1170.32	1240.39	1248.11	1155.87	1248.11	1184.86	1239.76	1203.83	1239.76	1240.39	1234.77	1240.39	1240.22	1226.21	1240.22	1238.16	1109.83
5/10/2020	NA	1242.63	1239.28	1193.95	1242.63	1240.47	1084.05	1240.47	1247.73	1144.77	1247.73	1182.34	1240.13	1203.28	1240.13	1241.01	1235.46	1241.01	1241.02	1228.32	1241.02	1239.28	1112.71
5/11/2020	1221.30	1245.26	1241.86	1147.22	1245.26	1242.67	1162.31	1242.67	1249.79	1144.50	1249.79	1117.95	1239.38	1141.16	1239.38	1241.30	1236.39	1241.30	1242.93	1215.54	1242.93	1241.86	1112.89
5/12/2020	1222.27	1242.52	1239.23	1168.90	1242.52	1240.84	1158.82	1240.84	1248.89	1155.75	1248.89	1153.99	1239.18	1175.85	1239.18	1240.62	1235.67	1240.62	1241.31	1221.84	1241.31	1239.23	1119.98
5/13/2020	1221.37	1239.72	1237.61	1171.04	1239.72	1238.44	1158.00	1238.44	1247.91	1123.01	1247.91	1176.12	1240.33	1195.71	1240.33	1241.25	1235.82	1241.25	1240.46	1223.32	1240.46	1237.61	1142.10
5/14/2020	1219.84	1238.98	1237.14	1166.98	1238.98	1237.62	1159.68	1237.62	1247.30	1106.89	1247.30	1174.02	1239.84	NA	1239.84	1240.79	1234.90	1240.79	1240.09	1226.78	1240.09	1237.14	1143.95
5/15/2020	1220.88	1239.52	1237.09	1185.63	1239.52	1238.43	1160.59	1238.43	1247.48	1147.60	1247.48	1178.06	1238.71	1195.10	1238.71	1239.68	1234.02	1239.68	1239.77	1228.89	1239.77	1237.09	1146.03
5/16/2020	1221.24	1239.52	1236.60	1194.91	1239.52	1238.60	1161.56	1238.60	1247.74	1165.54	1247.74	1181.80	1238.07	1187.47	1238.07	1238.89	1233.45	1238.89	1239.42	1230.49	1239.42	1236.60	1149.79
5/17/2020	1221.30	1240.10	1237.58	1197.33	1240.10	1239.36	1165.20	1239.36	1248.55	1177.06	1248.55	1183.59	1238.94	1185.34	1238.94	1239.60	1233.80	1239.60	1240.12	1231.85	1240.12	1237.58	1152.86
5/18/2020	1211.45	1240.29	1237.46	1200.42	1240.29	1240.00	1161.72	1240.00	1249.57	1183.23	1249.57	1185.34	1239.33	1184.02	1239.33	1239.92	1233.85	1239.92	1240.32	1232.52	1240.32	1237.46	1155.00
5/19/2020	1208.05	1238.40	1235.69	1199.28	1238.40	1238.14	NA	1238.14	1247.57	1181.83	1247.57	1183.05	1237.31	1180.56	1237.31	1238.10	1232.36	1238.10	1238.57	1231.29	1238.57	1235.69	1155.12
5/20/2020	1207.15	1237.30	1234.62	1197.55	1237.30	1236.86	NA	1236.86	1246.22	1178.10	1246.22	1181.51	1236.13	1177.96	1236.13	1236.96	1231.20	1236.96	1237.52	1230.74	1237.52	1234.62	1156.15
5/21/2020	1206.47	1237.71	1235.09	1197.42	1237.71	1237.32	NA	1237.32	1247.09	1176.72	1247.09	1181.71	1236.81	1177.06	1236.81	1237.54	1231.72	1237.54	1238.03	1231.57	1238.03	1235.09	1157.91
5/22/2020	1218.00	1239.81	1237.08	1196.67	1239.81	1238.87	1186.53	1238.87	1247.87	1169.42	1247.87	1181.41	1238.30	1177.06	1238.30	1239.11	1232.85	1239.11	1239.85	1233.95	1239.85	1237.08	1160.74
5/23/2020	1221.35	1240.58	1238.13	1194.57	1240.58	1239.41	1194.32	1239.41	1248.08	1163.16	1248.08	1180.69	1239.05	1176.32	1239.05	1239.97	1233.71	1239.97	1240.72	1235.10	1240.72	1238.13	1162.62
5/24/2020	1221.37	1241.01	1238.53	1194.18	1241.01	1239.82	1194.25	1239.82	1248.55	1161.59	1248.55	1180.60	1239.57	1175.40	1239.57	1240.51	1234.39	1240.51	124				

Q2 2020 HYDRAULIC GRADIENT, DAILY AVERAGE WATER LEVEL ELEVATIONS,
OBSERVATION AND RECOVERY WELLS

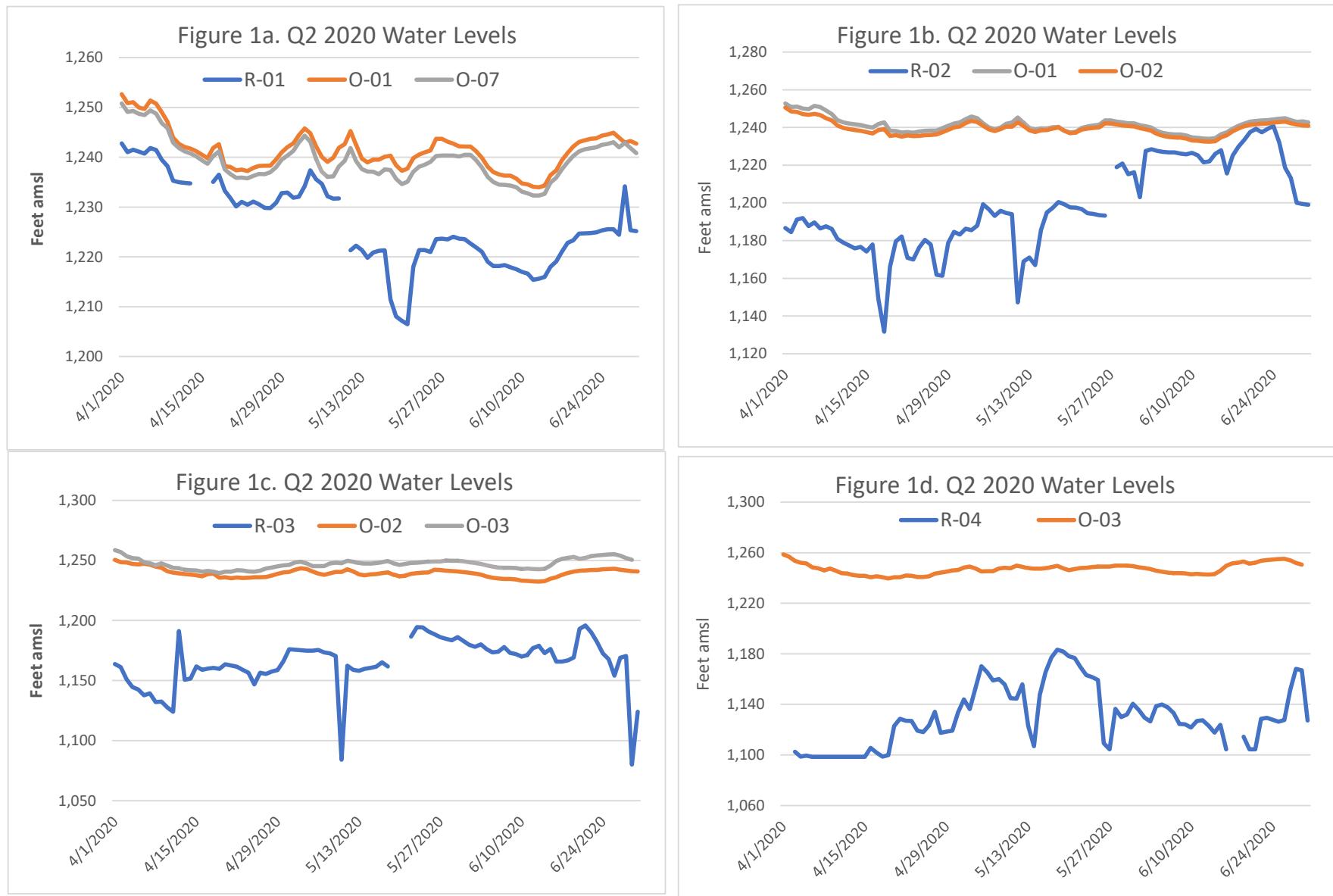
FLORENCE COPPER INC.
FLORENCE, ARIZONA

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Table 3. June 2020 Daily Average Water Level Elevations

Date	R-01	O-01	O-07	R-02	O-01	O-02	R-03	O-02	R-04	O-03	R-05	O-04	R-06	O-04	O-05	R-07	O-05	O-06	R-08	O-06	O-07	R-09	
6/1/2020	1222.69	1242.17	1240.49	1203.05	1241.23	1239.58	1179.72	1239.58	1248.45	1135.67	1248.45	1175.26	1239.94	1203.75	1239.94	1241.14	1235.30	1241.14	1241.79	1227.07	1241.79	1239.45	1161.182
6/2/2020	1221.92	1241.23	1239.45	1227.59	1240.70	1239.02	1178.04	1239.02	1247.93	1129.58	1247.93	1174.77	1239.41	1202.06	1239.41	1240.69	1234.58	1240.69	1241.23	1227.03	1241.23	1238.91	1155.493
6/3/2020	1221.02	1239.90	1237.97	1228.44	1239.90	1238.25	1180.15	1238.25	1247.19	1126.49	1247.19	1173.36	1238.34	1199.27	1238.34	1239.63	1232.90	1239.63	1240.17	1226.40	1240.17	1237.97	1153.4
6/4/2020	1219.04	1238.11	1236.06	1227.58	1238.11	1236.61	1176.08	1236.61	1245.82	1138.60	1245.82	1172.08	1236.51	1199.52	1236.51	1237.77	1230.90	1237.77	1238.23	1221.36	1238.23	1236.06	1153.19
6/5/2020	1218.15	1237.04	1235.04	1227.00	1237.04	1235.58	1173.50	1235.58	1244.92	1139.96	1244.92	1170.91	1235.50	1198.95	1235.50	1236.77	1230.00	1236.77	1237.19	1219.28	1237.19	1235.04	1158.06
6/6/2020	1218.18	1236.54	1234.53	1226.79	1236.54	1234.99	1174.02	1234.99	1244.17	1137.64	1244.17	1169.81	1234.88	1196.99	1234.88	1236.09	1229.22	1236.09	1236.58	1219.22	1236.58	1234.53	1158.239
6/7/2020	1218.35	1236.30	1234.49	1226.76	1236.30	1234.60	1177.86	1234.60	1243.88	1133.13	1243.88	1168.82	1234.74	1195.81	1234.74	1236.05	1229.58	1236.05	1236.53	1219.51	1236.53	1234.49	1157.363
6/8/2020	1217.92	1236.30	1234.34	1226.10	1236.30	1234.58	1173.05	1234.58	1243.80	1124.50	1243.80	1167.82	1234.52	1194.42	1234.52	1235.81	1229.18	1235.81	1236.37	1219.68	1236.37	1234.34	1156.585
6/9/2020	1217.54	1235.75	1233.96	1225.82	1235.75	1234.09	1172.07	1234.09	1243.68	1124.13	1243.68	1167.25	1234.22	1193.28	1234.22	1235.62	1228.92	1235.62	1236.06	1219.92	1236.06	1233.96	1164.34
6/10/2020	1216.97	1234.75	1233.12	1226.47	1234.75	1233.08	1170.03	1233.08	1242.88	1121.60	1242.88	1167.83	1233.46	1191.47	1233.46	1234.81	1228.07	1234.81	1235.21	1219.29	1235.21	1233.12	1170.533
6/11/2020	1216.67	1234.55	1232.78	1225.24	1234.55	1233.02	1171.17	1233.02	1243.33	1126.82	1243.33	1166.13	1233.18	1190.40	1233.18	1234.42	1227.36	1234.42	1234.85	1218.98	1234.85	1232.78	1190.99
6/12/2020	1215.36	1234.06	1232.30	1221.52	1234.06	1232.57	1177.14	1232.57	1242.90	1127.39	1242.90	1165.58	1232.79	1190.06	1232.79	1234.11	1227.34	1234.11	1234.54	1218.48	1234.54	1232.30	1187.92
6/13/2020	1215.65	1233.98	1232.30	1222.00	1233.98	1232.35	1178.90	1232.35	1242.68	1123.08	1242.68	1164.68	1232.72	1190.62	1232.72	1234.12	1227.81	1234.12	1234.53	1219.08	1234.53	1232.30	1186.71
6/14/2020	1215.99	1234.32	1232.66	1226.03	1234.32	1232.70	1172.89	1232.70	1243.15	1117.53	1243.15	1164.87	1233.22	1190.00	1233.22	1234.54	1227.98	1234.54	1234.91	1219.63	1234.91	1232.66	1182.212
6/15/2020	1218.01	1236.42	1234.91	1227.99	1236.42	1234.77	1176.31	1234.77	1245.65	1123.73	1245.65	1166.10	1235.84	1191.34	1235.84	1236.98	1229.83	1236.98	1237.25	1223.88	1237.25	1234.91	1178.213
6/16/2020	1219.06	1237.40	1235.92	1215.64	1237.40	1235.92	1165.79	1235.92	1249.52	1104.42	1249.52	1156.76	1237.29	1191.09	1237.29	1238.23	1230.83	1238.23	1238.23	1216.12	1238.23	1235.92	1190.356
6/17/2020	1221.01	1239.40	1237.57	1225.12	1239.40	1238.02	1165.74	1238.02	1251.41	NA	1251.41	1137.91	1238.40	1187.44	1238.40	1239.48	1232.32	1239.48	1239.79	1219.74	1239.79	1237.57	1196.44
6/18/2020	1222.85	1240.92	1239.06	1229.86	1240.92	1239.52	1166.69	1239.52	1252.17	NA	1252.17	1138.79	1239.87	1188.48	1239.87	1240.98	1233.91	1240.98	1241.26	1222.13	1241.26	1239.06	1197.325
6/19/2020	1223.32	1242.14	1240.27	1233.49	1242.14	1240.66	1169.25	1240.66	1252.97	1114.29	1252.97	1155.55	1241.46	1190.53	1241.46	1242.51	1242.51	1242.68	1224.87	1242.68	1240.27	1198.53	
6/20/2020	1224.68	1243.10	1241.19	1237.63	1243.10	1241.39	1192.94	1241.39	1251.39	1104.42	1251.39	1174.31	1242.57	1189.29	1242.57	1243.59	1236.39	1243.59	1243.66	1227.84	1243.66	1241.19	1199.29
6/21/2020	1224.71	1243.44	1241.60	1239.25	1243.44	1241.69	1195.93	1241.69	1252.08	1104.42	1252.08	1173.86	1243.02	1188.50	1243.02	1244.01	1236.81	1244.01	1244.11	1228.72	1244.11	1241.60	1197.6
6/22/2020	1224.78	1243.73	1241.82	1237.44	1243.73	1241.98	1190.09	1241.98	1253.62	1128.54	1253.62	1173.90	1244.44	1191.89	1244.44	1244.92	1237.74	1244.92	1244.54	1222.11	1244.54	1241.82	1196.375
6/23/2020	1224.91	1243.84	1242.00	1239.23	1243.84	1242.12	1182.09	1242.12	1254.09	1129.33	1254.09	NA	1244.63	1191.47	1244.63	1245.00	1237.56	1245.00	1244.64	1223.27	1244.64	1242.00	1194.02
6/24/2020	1225.34	1244.33	1242.48	1240.76	1244.33	1242.58	1172.68	1242.58	1254.63	1127.73	1254.63	NA	1245.15	1191.57	1245.15	1245.52	1237.9						

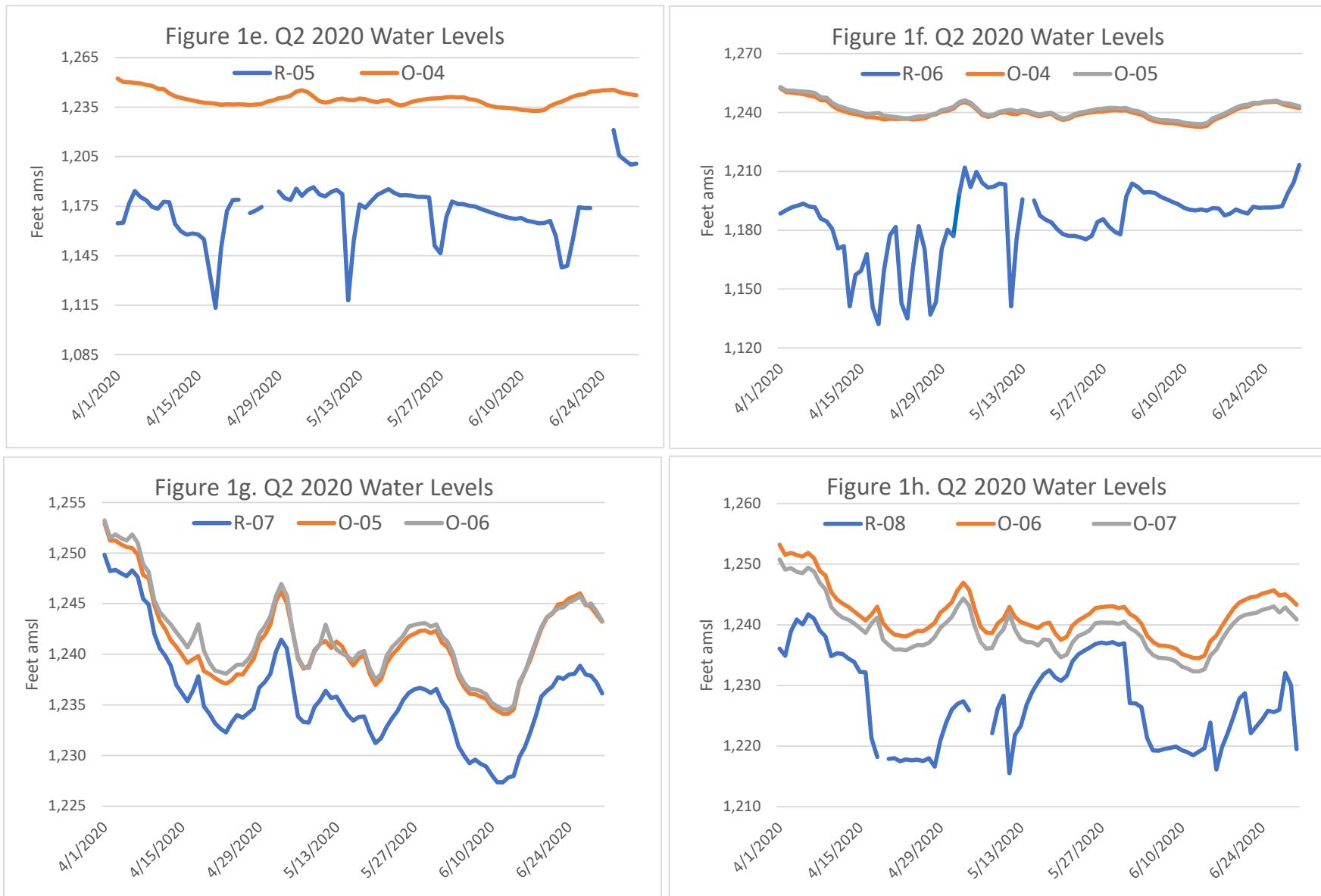
Hydraulic Gradient - Daily Average Water Level Elevations - Observation and Recovery Wells



Notes:

Refer to the preceding Daily Average Water Level Elevation Tables (Tables 1 - 3) for details on missing data points.

Hydraulic Gradient - Daily Average Water Level Elevations - Observation and Recovery Wells



Notes:

Refer to the preceding Daily Average Water Level Elevation Tables (Tables 1 -3) for details on missing data points.

ATTACHMENT 4

Table and Graphs of Fluid Electrical Conductivity Measurements

Q2 2020 DAILY FLUID ELECTRICAL CONDUCTIVITY

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INJECTION AND OBSERVATION WELLS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 1. April 2020 Daily Fluid Electrical Conductivity Readings

Date	I-01	I-02	I-03	I-04	O-01	O-02	O-03	O-04	O-05	O-06	O-07
4/1/2020	69061	70056	70292	70795	4616	8489	6750	8574	2556	4737	4926
4/2/2020	69699	69731	70621	70670	4555	5975	6920	8789	2597	4638	4782
4/3/2020	69937	70429	70538	70633	4402	4790	6732	8337	2700	4551	4692
4/4/2020	71222	71209	71053	71197	4379	4473	6696	8499	2528	4911	4591
4/5/2020	71436	71092	71165	71410	4103	4139	5778	7970	2482	4454	4407
4/6/2020	69842	70963	71088	71131	4496	6484	6442	8357	2686	4790	4694
4/7/2020	67534	68819	NA	68901	4708	7601	6352	8311	2791	7095	5364
4/8/2020	69563	70236	NA	70205	3693	5597	4649	2652	2223	5679	4140
4/9/2020	69938	70582	NA	70559	4229	5405	5260	3482	2494	6570	4777
4/10/2020	68824	68643	69359	68601	4295	4579	5646	3640	2598	5892	4746
4/11/2020	70479	70456	70649	70399	4067	3985	5825	8155	2158	4573	4411
4/12/2020	69146	70516	70651	70537	4327	4140	6096	8613	2424	4769	4612
4/13/2020	68997	69980	70035	70102	4216	3876	5953	7917	2412	4522	4517
4/14/2020	69502	69294	70242	70177	4153	3611	5633	7829	2414	4589	4432
4/15/2020	69582	69810	69687	68603	4491	4055	6117	8250	2542	4570	4614
4/16/2020	68894	69360	65859	70058	4289	3893	5675	8027	2692	4376	4460
4/17/2020	69539	69005	69463	69637	4548	4018	6034	8585	2502	4455	4638
4/18/2020	69477	69742	69600	70355	4839	4317	6419	9012	2567	4439	5148
4/19/2020	71447	72230	72175	72494	6512	4545	6258	9014	2634	8288	5463
4/20/2020	68711	69960	69845	69677	6287	4348	5864	8484	2579	8326	5103
4/21/2020	70474	72047	71428	71790	6028	4159	6196	8270	2457	9241	5150
4/22/2020	68107	69805	69958	70017	5487	4147	6125	8413	2404	4780	4778
4/23/2020	68646	68947	68845	68955	5168	4759	6499	8451	2421	4580	4634
4/24/2020	66616	66576	67384	66598	5620	4843	7190	9510	2724	4915	5165
4/25/2020	67504	67065	67498	67487	5539	5385	6818	9936	3376	5002	5191
4/26/2020	68491	69360	69462	69570	4111	4096	5214	7413	2151	4018	3943
4/27/2020	68533	69336	68932	68974	4766	4890	6430	8585	2537	4690	4602
4/28/2020	68749	69357	70174	68541	5049	4582	6806	9013	2694	4825	4948
4/29/2020	68535	69892	70013	70009	4914	4151	6566	8870	2596	4621	4825
4/30/2020	66241	68055	67900	67819	4356	4667	5623	8005	2449	4293	4344

Notes:All measurements in microsiemens per centimeter ($\mu\text{S}/\text{cm}$)

NA or NM = Not measured or otherwise not available

April 7-9: I-03 down for downhole equipment retrieval

INJECTION AND OBSERVATION WELLS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 2. May 2020 Daily Fluid Electrical Conductivity Readings

Date	I-01	I-02	I-03	I-04	O-01	O-02	O-03	O-04	O-05	O-06	O-07
5/1/2020	71798	71412	71950	71400	3769	4216	4918	7073	2078	3856	3853
5/2/2020	71637	71983	72145	71666	4464	5137	5756	7763	2122	4559	4483
5/3/2020	67504	69024	68205	68370	4442	6817	5480	7766	2499	4463	4558
5/4/2020	68057	68554	68465	68702	4370	5779	5304	7579	2486	4714	4575
5/5/2020	67039	68284	67847	67673	5646	4228	4942	6902	2309	9856	5534
5/6/2020	67329	67922	68697	68024	7240	4346	5664	7641	2432	11622	6747
5/7/2020	68305	68397	69172	69103	5977	5648	5466	8217	2221	10275	5966
5/8/2020	68894	69394	69169	68061	5774	6319	7832	9107	2579	11135	6662
5/9/2020	68178	68237	68212	67783	5302	5942	8723	8820	2580	10958	6158
5/10/2020	65789	66508	66650	66817	5078	5591	8553	8676	2520	7315	4533
5/11/2020	65800	66872	67150	67189	3714	2680	6192	6501	1864	5160	2828
5/12/2020	65210	65113	65903	65688	3682	2628	7027	6672	1925	4443	3819
5/13/2020	70730	69801	71834	71830	3659	3051	6821	6970	2042	3715	3783
5/14/2020	67056	69380	68356	68144	4802	4074	8484	9038	2520	5778	5014
5/15/2020	68822	68725	68974	68719	4303	3115	7542	8654	2121	5628	4348
5/16/2020	66535	66888	66809	66173	5008	3784	9142	9099	6610	2601	4983
5/17/2020	66276	65757	66455	66338	4435	3407	8196	8087	2400	5552	4361
5/18/2020	67408	68080	68107	68092	3983	3047	7462	7090	2174	4320	3926
5/19/2020	66071	66521	66515	66160	4921	4538	9368	8810	2710	4985	4849
5/20/2020	65731	66886	66707	66712	4703	5064	9053	8600	2618	4824	4734
5/21/2020	66847	67899	67979	68020	4735	5113	9178	8675	2653	4890	4759
5/22/2020	66857	66987	66786	66622	4452	4465	8431	7928	2501	4551	4474
5/23/2020	67208	67143	66974	66668	4598	4592	8952	8199	2587	4651	4577
5/24/2020	67444	67576	67618	67394	4644	4013	9086	8202	2827	5299	4590
5/25/2020	66864	66918	66820	66738	4550	3337	9037	8110	2618	5541	4492
5/26/2020	67838	68052	67884	67559	4661	3847	9181	8273	2713	5443	4644
5/27/2020	66655	66688	66777	65565	4466	3829	8960	8021	2647	4667	4457
5/28/2020	68303	68015	67434	18119	4494	3948	8835	7932	2587	4422	4449
5/29/2020	66495	67914	66883	67033	4484	3890	9039	7897	2600	4493	4470
5/30/2020	68485	68316	68368	68336	4553	3864	9023	7943	2597	4766	4512
5/31/2020	67439	67504	67196	65253	4623	3747	9218	8106	2695	5957	4598

Notes:All measurements in microsiemens per centimeter ($\mu\text{S}/\text{cm}$)

NA or NM = Not measured or otherwise not available

The May 28 reading from I-04 is identified as an outlier. Injection fluid is supplied to all injection wells by a single line, therefore injection well fluid electrical conductivity readings should be similar. Because the readings from injection wells I-01, I-02, and I-03 on May 28 are very similar and consistent with previous and subsequent days' readings, the May 28 reading from I-04 is an outlier.

Q2 2020 DAILY FLUID ELECTRICAL CONDUCTIVITY

Page 3 of 3

INJECTION AND OBSERVATION WELLS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 3. June 2020 Daily Fluid Electrical Conductivity Readings

Date	I-01	I-02	I-03	I-04	O-01	O-02	O-03	O-04	O-05	O-06	O-07
6/1/2020	65910	66223	65928	64756	4484	3676	9263	7784	2714	6643	4453
6/2/2020	64544	64450	64912	64154	4468	3686	9347	7855	2551	8790	4526
6/3/2020	72980	69753	73889	74292	4555	3886	9319	7822	2594	9545	4850
6/4/2020	66000	70006	71634	66698	4320	3613	8992	7791	2513	9168	4262
6/5/2020	66078	66606	66621	65929	4423	3746	9890	7998	2565	8212	4346
6/6/2020	46011	46262	46384	46914	4616	3886	10175	8482	2667	8483	4497
6/7/2020	45693	46581	46713	46629	4497	3859	10072	8347	2602	7825	4407
6/8/2020	46235	46239	46320	46288	4452	3856	9839	8271	2604	7620	4302
6/9/2020	46418	45642	46482	45760	4147	3639	9342	7475	2410	7254	3999
6/10/2020	45510	45759	45691	45376	4285	3675	9835	7222	2231	7299	3791
6/11/2020	45791	45957	45942	45412	4530	3977	10411	8395	2667	8587	4449
6/12/2020	46345	26316	46287	46141	4332	3828	10049	7980	2628	7849	4039
6/13/2020	48227	46112	42981	48268	4687	4252	11031	8922	2729	3797	4657
6/14/2020	45031	44964	45053	44552	4640	4200	11213	8202	2735	9256	4602
6/15/2020	45707	45691	45259	45149	4157	3821	10158	7671	2551	8598	4182
6/16/2020	44772	44668	44692	44580	4515	4207	10725	7287	2753	9329	4615
6/17/2020	45382	45274	45510	45137	4400	4042	10543	7379	2581	7901	4332
6/18/2020	44928	45667	45510	45458	3935	3571	9869	6226	2302	6374	3876
6/19/2020	46000	46196	46317	46189	4130	3819	10634	6715	2500	7915	4127
6/20/2020	44492	44402	44767	44730	4706	4368	11814	8228	2747	8764	4627
6/21/2020	43960	44587	44921	44655	4884	4375	12099	7957	2861	8398	4952
6/22/2020	43211	44876	45003	44932	4410	4134	11461	7100	2657	7869	4372
6/23/2020	42539	43175	42773	42794	4443	4238	11745	7318	2740	5545	4393
6/24/2020	43663	42031	45673	44758	4541	4369	11823	7496	2774	5156	4501
6/25/2020	45103	44458	44670	43884	4537	4486	12147	7460	2957	5457	4661
6/26/2020	43025	46371	46424	46159	4245	4265	11732	7000	2903	5236	4322
6/27/2020	20319	20522	20567	20749	4210	3951	10882	6496	2632	5084	4145
6/28/2020	18355	18451	18348	18480	4094	4011	10943	6067	2674	8336	4026
6/29/2020	18739	18883	19135	19222	4094	4011	10943	6067	2674	8336	4026
6/30/2020	18802	18794	18863	18820	4354	4103	12385	6317	2773	9438	4329

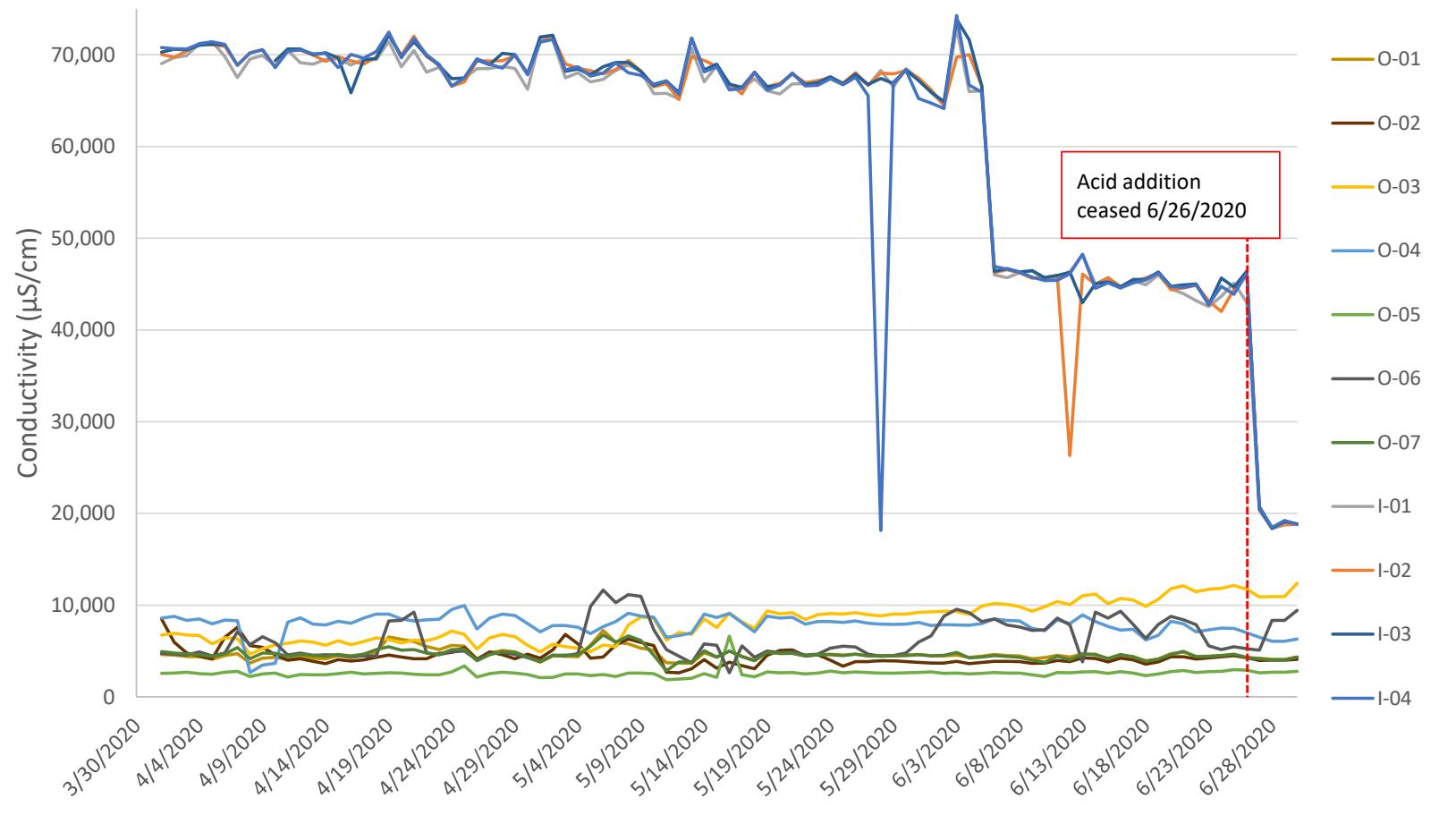
Notes:All measurements in microsiemens per centimeter ($\mu\text{S}/\text{cm}$)

NA or NM = Not measured or otherwise not available

The June 12 reading from I-02 is identified as an outlier. Injection fluid is supplied to all injection wells by a single line, therefore injection well fluid electrical conductivity readings should be similar. Because the readings from injection wells I-01, I-03, and I-04 on June 12 are very similar and consistent with previous and subsequent days' readings, the June 12 reading from I-02 is an outlier.

June 26: Ceased acid addition to raffinate at 4 PM.

Figure 1. Daily Fluid Conductivity in Observation and Injection Wells



Notes:

The conductivities for I-04 on 28 May 2020 and I-02 on 12 June 2020 have been identified as outliers. Injection fluid is supplied to all injection wells by a single line, therefore conductivities between all injection wells should be similar.

ATTACHMENT 5

Table and Graphs of Bulk Electrical Conductivity Measurements

MEMORANDUM

27 July 2020
File No. 132473-005

TO: Florence Copper Inc.
Mr. Brent Berg, General Manager

C: Florence Copper Inc.
Mr. Ian Ream, Senior Hydrogeologist

FROM: Haley & Aldrich, Inc.
Mark Nicholls, R.G.

SUBJECT: Summary of Bulk Electrical Conductivity Monitoring Results, Second Quarter 2020
Production Test Facility
Florence Copper Inc., Florence, Arizona



Haley & Aldrich, Inc. (Haley & Aldrich) has conducted statistical analysis of bulk electrical conductivity (EC) data collected by HydroGeophysics, Inc. at the Florence Copper Inc. (Florence Copper) Production Test Facility (PTF) located in Florence, Arizona, in accordance with Temporary Aquifer Protection Permit (Temporary APP) No. P-106360 and the Underground Injection Control (UIC) Permit No R9UIC-AZ3-FR11-1. The procedures used to complete the analysis were described in the document titled *Procedures for Determining Bulk Electrical Conductivity Alert Levels* (Haley & Aldrich, 2018)¹.

Alert levels (AL) for bulk EC were initially approved in the letter issued by the U.S. Environmental Protection Agency dated 14 December 2018 and were adopted into the Temporary APP issued by the Arizona Department of Environmental Quality (ADEQ) on 5 December 2018 and renewed on 26 November 2019. More recently, ADEQ issued an amended APP on 13 February 2020 which updated the bulk EC ALs and the definition of a bulk EC exceedance, as requested in an "Other" permit amendment submitted by Florence Copper on 17 January 2020.

¹ Haley & Aldrich, Inc., 2018. *Procedures for Determining Bulk Electrical Conductivity Alert Levels, Production Test Facility, Florence Copper Project*. August.

Alert Levels

To ensure that in-situ copper recovery fluids do not enter the Lower Basin Fill Unit (LBFU) from the Bedrock Oxide Unit, the three upper horizons (1 through 3) are monitored. The following ALs are established for these horizons:

Electrode Pair Horizon	Alert Level (ohm-meters)
Horizon 1	9.67
Horizon 2	9.89
Horizon 3	10.07

The ALs represent minimum values. Consequently, an exceedance is indicated if the measured apparent resistivity on one of these horizons is *lower* than the established AL on three adjacent or intersecting current paths.

Second Quarter 2020 Monitoring Results

Second quarter (Q2) 2020 includes 13 monitoring events for bulk EC between 2 April and 24 June 2020. Monitoring events were conducted on a weekly basis. No bulk EC AL exceedances occurred during the Q2 2020 monitoring period. Bulk EC monitoring maps for the monitoring period detail these results (Figures 1 through 13).

Data Summary

Tables 1 through 3 list the apparent resistivity results over this monitoring period for horizons 1 through 3, respectively.

Relative to the baseline dataset, measurements collected from horizon 1 on 2 April and 10 April 2020 include outliers (defined as values over 4 times the interquartile range outside the range around the data median). The outlier measurements, collected from the O-01 to O-05 sensor pair, are biased high. As shown by the box plots presented in Attachment A and Tables 1 through 3, the grouped data from each horizon fall within or slightly below the range of the baseline dataset, with the exception of the elevated O-01 to O-05 sensor pair readings collected between 2 April and 24 April 2020.

During Q2 2020 apparent resistivities fell below the AL at two electrode pairs on horizon 3 (O-05 to O-06 and O-05 to O-07), two electrode pairs on horizon 2 (O-05 to O-06 and O-05 to O-07), and one electrode pair on horizon 1 (O-06 to O-07). These changes in apparent resistivity occurred during one monitoring event. During the subsequent monitoring event the apparent resistivity values measured on these sensor pairs returned to normal. These apparent resistivity changes are attributed to sensor drift. As defined in the amended permit, the revised AL is exceeded only if measurements fall below the AL on three or more adjacent or intersecting electrode pairs in the same horizon.

Attachment B shows the data from each horizon over time, during the baseline period, and monitoring both before and after the PTF became operational. The data collected during Q2 2020 is within the established tolerance limits.

Enclosures:

- Table 1 – Bulk Electrical Conductivity Monitoring Results, Horizon 1 (40 Feet Above LBFU/Oxide Contact)
- Table 2 – Bulk Electrical Conductivity Monitoring Results, Horizon 2 (20 Feet Above LBFU/Oxide Contact)
- Table 3 – Bulk Electrical Conductivity Monitoring Results, Horizon 3 (at LBFU/Oxide Contact)
- Figure 1 – Apparent Bulk Resistivity Between Electrode Pairs by Horizon –4/2/2020, Production Test Facility
- Figure 2 – Apparent Bulk Resistivity Between Electrode Pairs by Horizon –4/10/2020, Production Test Facility
- Figure 3 – Apparent Bulk Resistivity Between Electrode Pairs by Horizon –4/16/2020, Production Test Facility
- Figure 4 – Apparent Bulk Resistivity Between Electrode Pairs by Horizon –4/24/2020, Production Test Facility
- Figure 5 – Apparent Bulk Resistivity Between Electrode Pairs by Horizon –4/30/2020, Production Test Facility
- Figure 6 – Apparent Bulk Resistivity Between Electrode Pairs by Horizon –5/7/2020, Production Test Facility
- Figure 7 – Apparent Bulk Resistivity Between Electrode Pairs by Horizon –5/14/2020, Production Test Facility
- Figure 8 – Apparent Bulk Resistivity Between Electrode Pairs by Horizon –5/20/2020, Production Test Facility
- Figure 9 – Apparent Bulk Resistivity Between Electrode Pairs by Horizon –5/27/2020, Production Test Facility
- Figure 10 – Apparent Bulk Resistivity Between Electrode Pairs by Horizon –6/4/2020, Production Test Facility
- Figure 11 – Apparent Bulk Resistivity Between Electrode Pairs by Horizon –6/11/2020, Production Test Facility
- Figure 12 – Apparent Bulk Resistivity Between Electrode Pairs by Horizon –6/18/2020, Production Test Facility
- Figure 13 – Apparent Bulk Resistivity Between Electrode Pairs by Horizon –6/24/2020, Production Test Facility
- Attachment A – Box Diagrams for Second Quarter Monitoring Data
- Attachment B – Summary Plot of Bulk Electrical Conductivity

TABLES

TABLE 1**BULK ELECTRICAL CONDUCTIVITY MONITORING RESULTS****HORIZON 1 (40 FEET ABOVE LBFU/OXIDE CONTACT)**

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Electrode 1	Electrode 2	Sending Well	Receiving Well	Apparent Resistivity ($\Omega\text{-m}$)												
				4/2/2020	4/10/2020	4/16/2020	4/24/2020	4/30/2020	5/7/2020	5/14/2020	5/20/2020	5/27/2020	6/4/2020	6/11/2020	6/18/2020	6/24/2020
B-01-BC-01	B-02-BC-01	O-01	O-02	12.50	12.58	12.59	12.64	12.64	12.65	12.72	12.69	12.69	12.66	12.70	12.65	12.50
B-01-BC-01	B-03-BC1-02	O-01	O-03	10.86	11.05	11.03	11.18	11.15	11.16	11.32	11.23	11.26	11.19	11.25	11.21	10.83
B-01-BC-01	B-04-BC-01	O-01	O-04	12.81	13.08	13.03	13.21	13.23	13.29	13.43	13.39	13.36	13.27	13.31	13.28	12.78
B-01-BC-01	B-05-BC-01	O-01	O-05	33.04	23.89	19.82	19.14	12.27	12.20	12.37	12.33	12.31	12.24	12.27	12.24	11.79
B-01-BC-01	B-06-BC-01	O-01	O-06	11.34	11.54	11.44	11.63	11.66	11.66	11.80	11.73	11.67	11.68	11.71	11.71	11.36
B-01-BC-01	B-07-BC1-02	O-01	O-07	11.48	11.62	11.56	11.68	11.69	11.73	11.79	11.75	11.70	11.71	11.76	11.73	11.48
B-02-BC-01	B-03-BC1-02	O-02	O-03	10.08	10.22	10.17	10.30	10.31	10.27	10.39	10.34	10.38	10.31	10.34	10.32	10.08
B-02-BC-01	B-04-BC-01	O-02	O-04	13.32	13.64	13.53	13.80	13.81	13.86	14.03	13.98	13.96	13.85	13.93	13.90	13.42
B-02-BC-01	B-05-BC-01	O-02	O-05	12.95	13.23	13.00	13.36	13.40	13.35	13.60	13.57	13.53	13.44	13.49	13.46	12.97
B-02-BC-01	B-06-BC-01	O-02	O-06	12.89	13.18	12.94	13.31	13.33	13.29	13.52	13.45	13.34	13.37	13.43	13.38	12.92
B-02-BC-01	B-07-BC1-02	O-02	O-07	11.87	12.10	11.91	12.19	12.22	12.26	12.38	12.32	12.22	12.26	12.30	12.28	11.94
B-03-BC1-02	B-04-BC-01	O-03	O-04	12.05	12.26	12.18	12.36	12.38	12.41	12.54	12.48	12.59	12.42	12.44	12.52	12.07
B-03-BC1-02	B-05-BC-01	O-03	O-05	12.40	12.68	12.47	12.81	12.81	12.80	13.00	12.87	13.06	12.87	12.91	12.89	12.46
B-03-BC1-02	B-06-BC-01	O-03	O-06	13.42	13.72	13.48	13.87	13.89	13.86	14.11	13.98	14.06	13.94	13.99	13.96	13.49
B-03-BC1-02	B-07-BC1-02	O-03	O-07	12.68	12.98	12.74	13.11	13.11	13.16	13.32	13.21	13.27	13.16	13.20	13.20	12.75
B-04-BC-01	B-05-BC-01	O-04	O-05	10.52	10.60	10.57	10.65	10.63	10.63	10.72	10.67	10.71	10.64	10.66	10.66	10.52
B-04-BC-01	B-06-BC-01	O-04	O-06	11.64	11.85	11.76	11.97	11.97	11.92	12.13	12.03	12.10	12.00	12.06	12.02	11.67
B-04-BC-01	B-07-BC1-02	O-04	O-07	12.25	12.49	12.37	12.59	12.60	12.66	12.78	12.68	12.76	12.65	12.73	12.68	12.27
B-05-BC-01	B-06-BC-01	O-05	O-06	9.70	9.81	9.77	9.88	9.88	9.84	9.98	9.93	9.96	9.91	9.90	9.92	9.72
B-05-BC-01	B-07-BC1-02	O-05	O-07	10.37	10.56	10.49	10.67	10.67	10.64	10.81	10.73	10.77	10.70	10.75	10.73	10.39
B-06-BC-01	B-07-BC1-02	O-06	O-07	9.78	9.89	9.85	9.92	9.94	9.94	10.00	9.96	9.95	9.96	9.95	9.95	9.62

Notes $\Omega\text{-m}$ = ohm-meters

LBFU = Lower Basin Fill Unit

Oxide = Bedrock Oxide Unit

Horizon 1 Alert Level = 9.67 $\Omega\text{-m}$

Alert Level Exceedance

Outliers

TABLE 2**BULK ELECTRICAL CONDUCTIVITY MONITORING RESULTS****HORIZON 2 (20 FEET ABOVE LBFU/OXIDE CONTACT)**

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Electrode 1	Electrode 2	Sending Well	Receiving Well	Apparent Resistivity ($\Omega\text{-m}$)												
				4/2/2020	4/10/2020	4/16/2020	4/24/2020	4/30/2020	5/7/2020	5/14/2020	5/20/2020	5/27/2020	6/4/2020	6/11/2020	6/18/2020	6/24/2020
B-01-BC-02	B-02-BC-02	O-01	O-02	14.24	14.32	14.33	14.38	14.37	14.39	14.45	14.43	14.42	14.38	14.44	14.39	14.24
B-01-BC-02	B-03-BC1-04	O-01	O-03	10.96	11.15	11.13	11.27	11.26	11.26	11.42	11.35	11.35	11.27	11.34	11.30	10.94
B-01-BC-02	B-04-BC-02	O-01	O-04	12.73	13.01	12.89	13.14	13.18	13.20	13.38	13.33	13.27	13.21	13.30	13.25	12.74
B-01-BC-02	B-05-BC-02	O-01	O-05	11.75	12.01	11.88	12.11	12.09	12.06	12.28	12.19	12.18	12.13	12.20	12.16	11.75
B-01-BC-02	B-06-BC-02	O-01	O-06	11.25	11.44	11.34	11.54	11.56	11.54	11.70	11.62	11.56	11.58	11.65	11.60	11.24
B-01-BC-02	B-07-BC1-04	O-01	O-07	11.49	11.61	11.54	11.68	11.69	11.70	11.78	11.73	11.69	11.71	11.73	11.71	11.48
B-02-BC-02	B-03-BC1-04	O-02	O-03	10.72	10.85	10.81	10.94	10.97	10.94	11.07	11.01	11.01	10.97	11.01	10.99	10.72
B-02-BC-02	B-04-BC-02	O-02	O-04	13.43	13.73	13.53	13.91	13.93	13.96	14.14	14.12	14.07	13.99	14.03	14.01	13.52
B-02-BC-02	B-05-BC-02	O-02	O-05	13.00	13.31	13.07	13.45	13.46	13.41	13.67	13.59	13.52	13.52	13.56	13.55	13.09
B-02-BC-02	B-06-BC-02	O-02	O-06	12.94	13.23	13.00	13.38	13.39	13.36	13.59	13.52	13.40	13.43	13.48	13.45	12.94
B-02-BC-02	B-07-BC1-04	O-02	O-07	11.90	12.13	11.93	12.21	12.25	12.25	12.39	12.34	12.24	12.30	12.29	12.27	11.91
B-03-BC1-04	B-04-BC-02	O-03	O-04	12.09	12.26	12.10	12.36	12.38	12.39	12.52	12.48	12.59	12.38	12.45	12.43	12.06
B-03-BC1-04	B-05-BC-02	O-03	O-05	12.31	12.58	12.39	12.72	12.72	12.69	12.90	12.81	12.86	12.75	12.82	12.78	12.36
B-03-BC1-04	B-06-BC-02	O-03	O-06	13.34	13.65	13.40	13.79	13.82	13.77	14.04	13.90	13.95	13.83	13.93	13.86	13.33
B-03-BC1-04	B-07-BC1-04	O-03	O-07	12.55	12.79	12.56	12.93	12.94	12.98	13.13	13.02	13.09	13.00	13.05	12.99	12.54
B-04-BC-02	B-05-BC-02	O-04	O-05	10.86	10.97	10.92	11.00	11.00	11.02	11.07	11.03	11.02	11.01	11.02	11.01	10.87
B-04-BC-02	B-06-BC-02	O-04	O-06	11.63	11.86	11.76	11.95	11.96	12.07	12.11	12.03	12.07	11.99	12.05	12.01	11.69
B-04-BC-02	B-07-BC1-04	O-04	O-07	13.38	12.49	12.41	12.50	12.41	12.43	12.61	12.50	12.57	12.48	12.51	12.49	12.09
B-05-BC-02	B-06-BC-02	O-05	O-06	9.93	10.05	10.00	10.10	10.09	10.12	10.20	10.15	10.18	10.13	10.15	10.15	9.70
B-05-BC-02	B-07-BC1-04	O-05	O-07	10.24	10.43	10.34	10.51	10.51	10.51	10.66	10.58	10.62	10.58	10.57	10.57	9.89
B-06-BC-02	B-07-BC1-04	O-06	O-07	10.54	10.63	10.60	10.69	10.70	10.69	10.76	10.71	10.71	10.76	10.72	10.73	10.39

Notes $\Omega\text{-m}$ = ohm-meters

LBFU = Lower Basin Fill Unit

Oxide = Bedrock Oxide Unit

Horizon 2 Alert Level = 9.89 $\Omega\text{-m}$

Alert Level Exceedance

TABLE 3**BULK ELECTRICAL CONDUCTIVITY MONITORING RESULTS****HORIZON 3 (AT LBFU/OXIDE CONTACT)**

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Electrode 1	Electrode 2	Sending Well	Receiving Well	Apparent Resistivity ($\Omega\text{-m}$)												
				4/2/2020	4/10/2020	4/16/2020	4/24/2020	4/30/2020	5/7/2020	5/14/2020	5/20/2020	5/27/2020	6/4/2020	6/11/2020	6/18/2020	6/24/2020
B-01-BC-03	B-02-BC-03	O-01	O-02	15.07	15.17	15.18	15.23	15.24	15.25	15.32	15.28	15.27	15.24	15.23	15.27	15.07
B-01-BC-03	B-03-BC2-02	O-01	O-03	11.02	11.25	11.21	11.36	11.37	11.31	11.52	11.43	11.43	11.39	11.42	11.42	11.00
B-01-BC-03	B-04-BC-03	O-01	O-04	12.71	12.99	12.87	13.12	13.16	13.17	13.36	13.31	13.23	13.21	13.24	13.21	12.71
B-01-BC-03	B-05-BC-03	O-01	O-05	11.65	11.90	11.79	12.01	12.04	12.01	12.22	12.15	12.04	12.07	12.13	12.10	11.66
B-01-BC-03	B-06-BC-03	O-01	O-06	11.14	11.34	11.22	11.42	11.44	11.44	11.59	11.52	11.46	11.48	11.49	11.48	11.13
B-01-BC-03	B-07-BC2-02	O-01	O-07	11.75	11.87	11.79	11.93	11.93	11.95	12.03	12.00	11.95	11.95	11.97	11.96	11.74
B-02-BC-03	B-03-BC2-02	O-02	O-03	11.04	11.21	11.16	11.29	11.31	11.27	11.42	11.35	11.34	11.33	11.35	11.32	11.06
B-02-BC-03	B-04-BC-03	O-02	O-04	13.32	13.65	13.43	13.79	13.82	13.87	14.07	14.00	13.94	13.79	13.96	13.90	13.40
B-02-BC-03	B-05-BC-03	O-02	O-05	12.88	13.18	12.94	13.30	13.35	13.29	13.54	13.47	13.37	13.36	13.45	13.43	12.97
B-02-BC-03	B-06-BC-03	O-02	O-06	12.83	13.12	12.89	13.26	13.28	13.30	13.47	13.41	13.29	13.34	13.38	13.34	12.91
B-02-BC-03	B-07-BC2-02	O-02	O-07	12.00	12.22	12.05	12.31	12.32	12.34	12.49	12.43	12.32	12.36	12.42	12.36	12.02
B-03-BC2-02	B-04-BC-03	O-03	O-04	12.01	12.22	12.06	12.30	12.34	12.35	12.46	12.40	12.51	12.36	12.37	12.37	12.02
B-03-BC2-02	B-05-BC-03	O-03	O-05	12.30	12.58	12.40	12.71	12.73	12.71	12.89	12.81	12.84	12.75	12.80	12.78	12.39
B-03-BC2-02	B-06-BC-03	O-03	O-06	13.38	13.69	13.45	13.82	13.74	13.90	14.07	13.95	14.01	13.93	13.97	13.95	13.45
B-03-BC2-02	B-07-BC2-02	O-03	O-07	12.62	12.81	12.57	12.92	12.94	12.98	13.13	13.03	13.06	12.99	13.00	13.03	12.55
B-04-BC-03	B-05-BC-03	O-04	O-05	11.56	11.64	11.61	11.68	11.67	11.66	11.72	11.69	11.70	11.63	11.74	11.67	11.49
B-04-BC-03	B-06-BC-03	O-04	O-06	11.75	11.96	11.88	12.06	12.06	12.07	12.22	12.13	12.19	12.09	12.14	12.14	11.76
B-04-BC-03	B-07-BC2-02	O-04	O-07	19.23	15.96	14.17	13.10	12.31	12.34	12.51	12.42	12.47	12.34	12.42	12.54	11.99
B-05-BC-03	B-06-BC-03	O-05	O-06	10.20	10.32	10.27	10.37	10.39	10.36	10.47	10.41	10.49	10.40	10.41	10.39	9.96
B-05-BC-03	B-07-BC2-02	O-05	O-07	10.12	10.31	10.22	10.38	10.42	10.37	10.53	10.47	10.57	10.43	10.46	10.43	9.75
B-06-BC-03	B-07-BC2-02	O-06	O-07	10.76	10.85	10.82	10.89	10.95	10.89	10.96	10.93	10.90	10.91	10.95	10.92	10.58

Notes $\Omega\text{-m}$ = ohm-meters

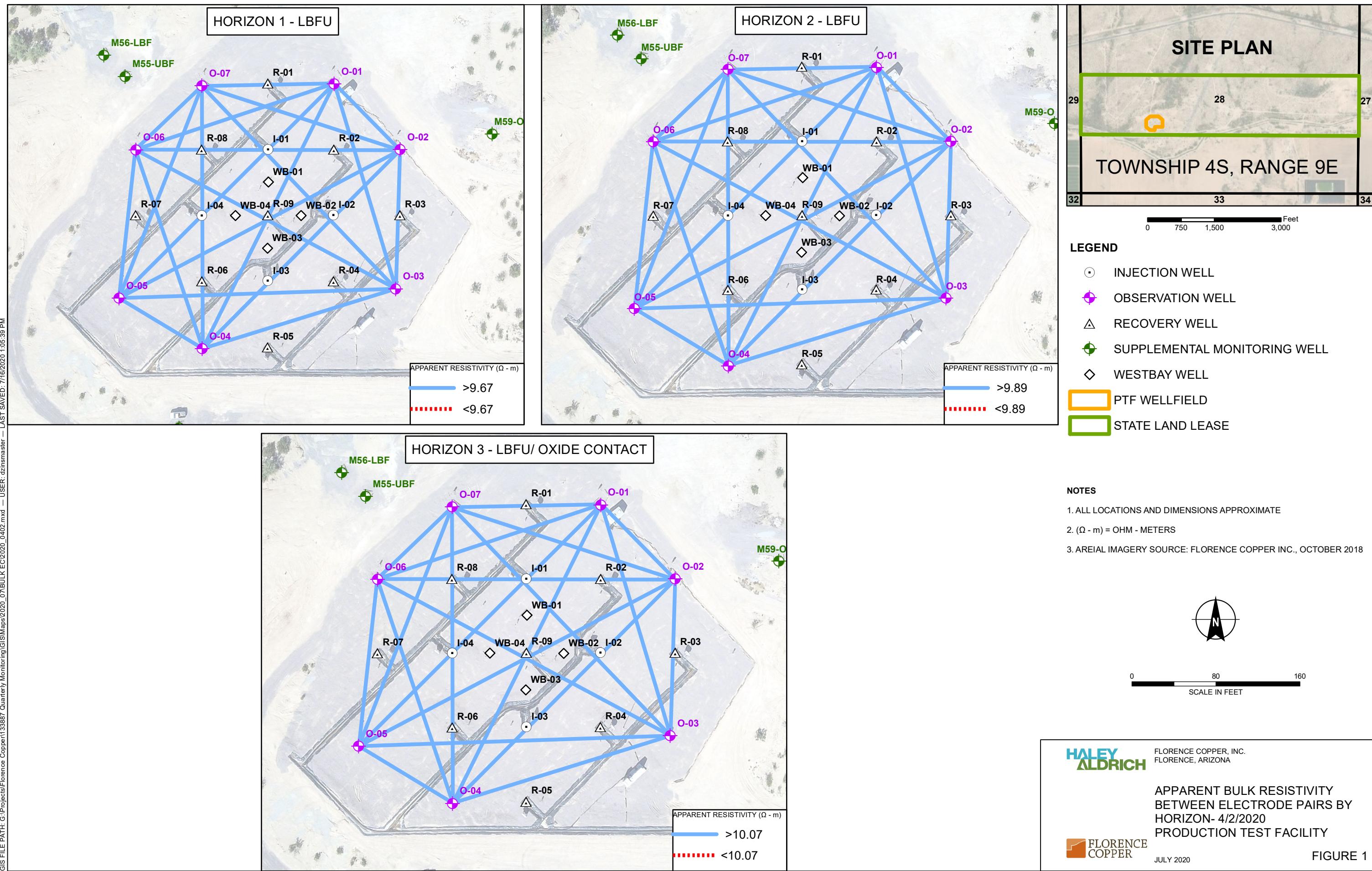
LBFU = Lower Basin Fill Unit

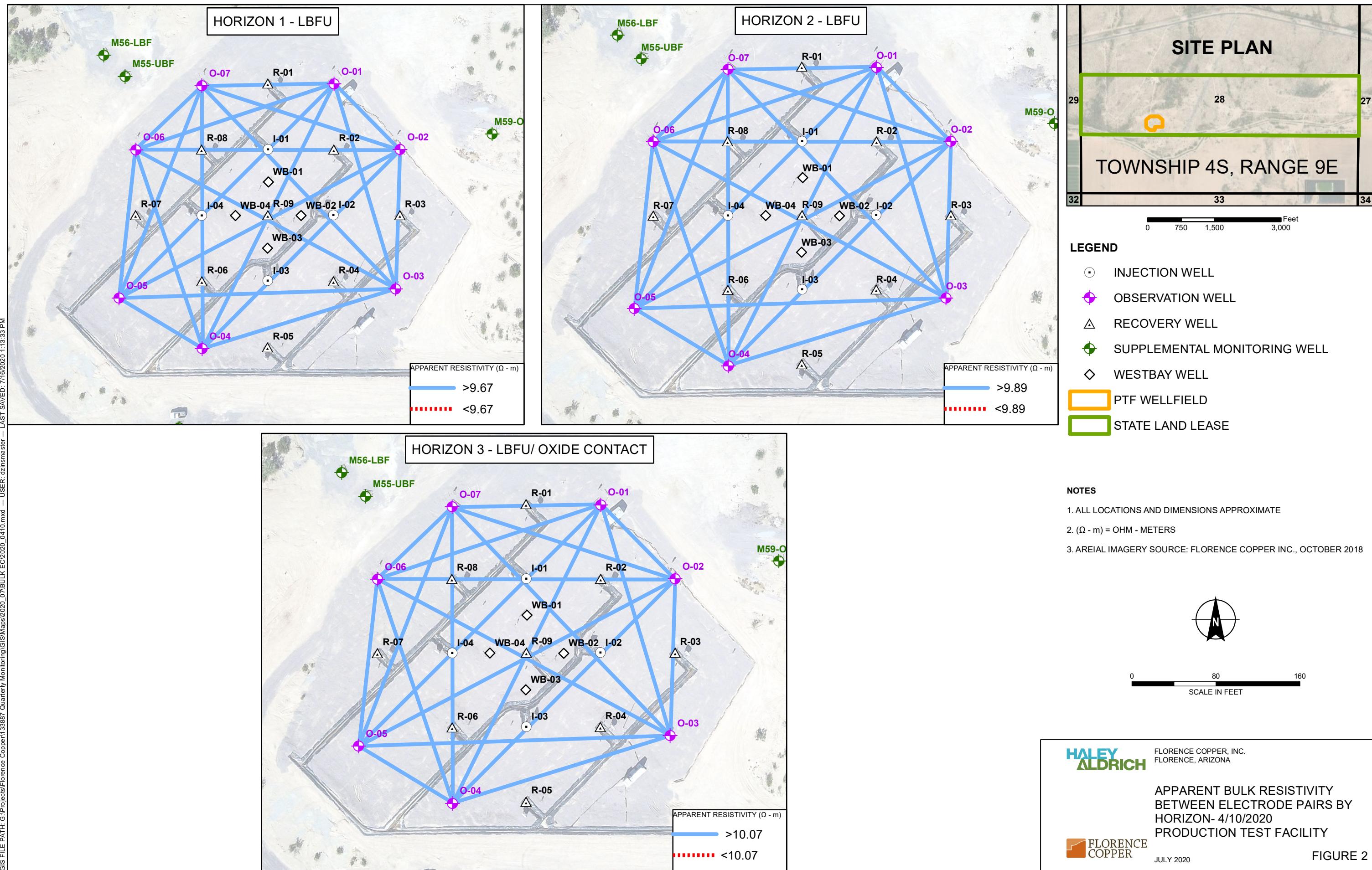
Oxide = Bedrock Oxide Unit

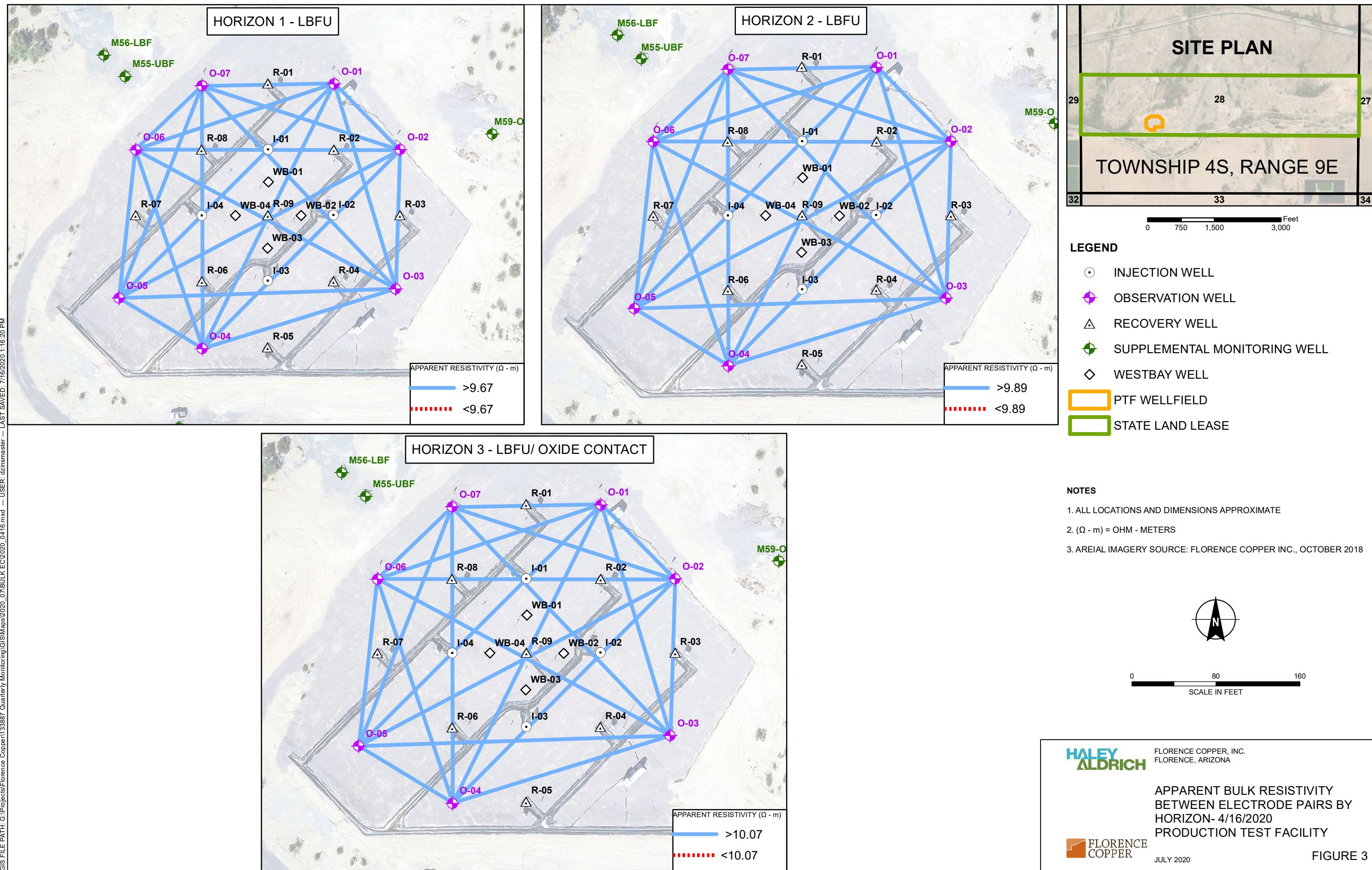
Horizon 3 Alert Level = 10.07 $\Omega\text{-m}$

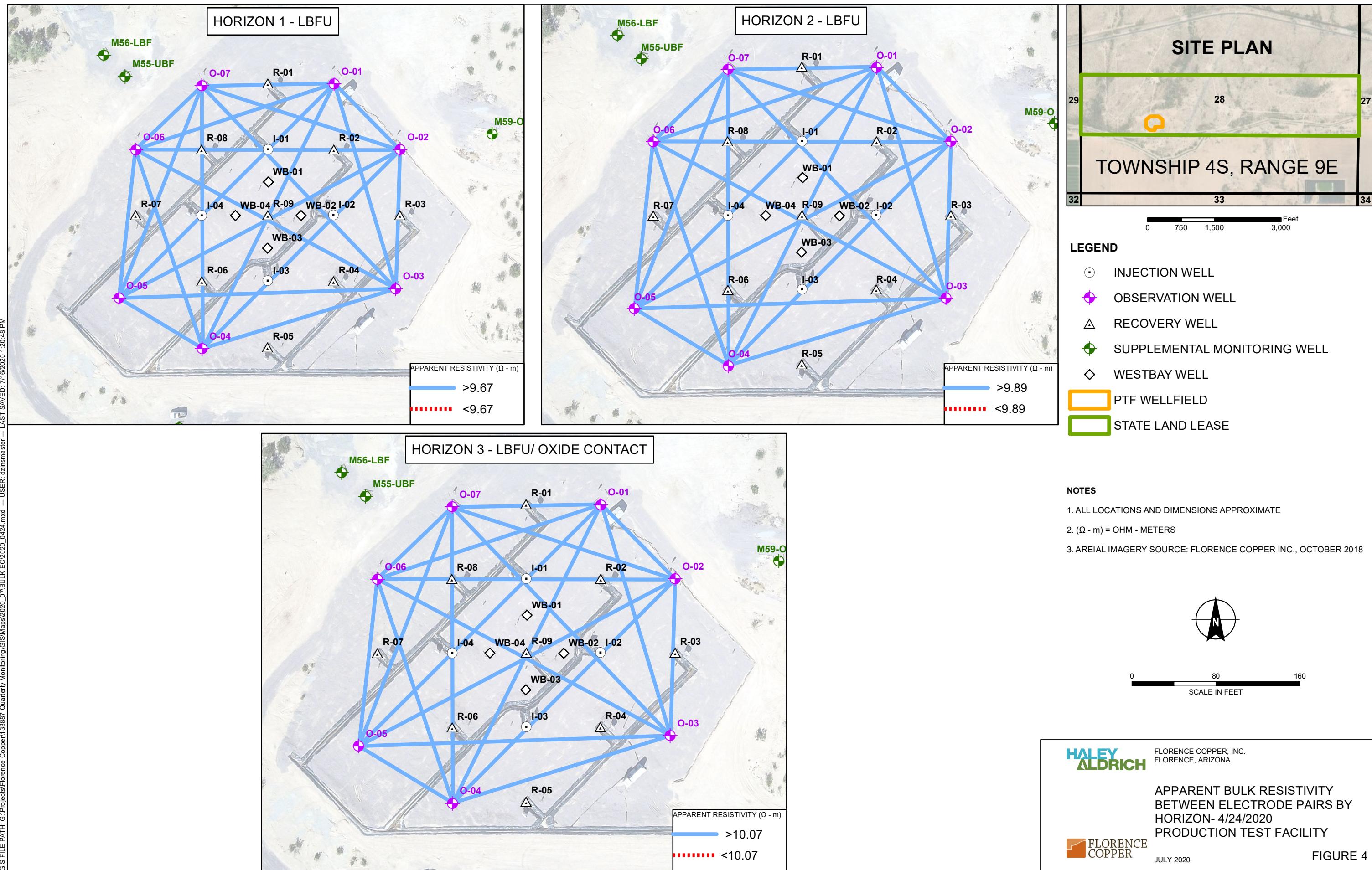
Alert Level Exceedance

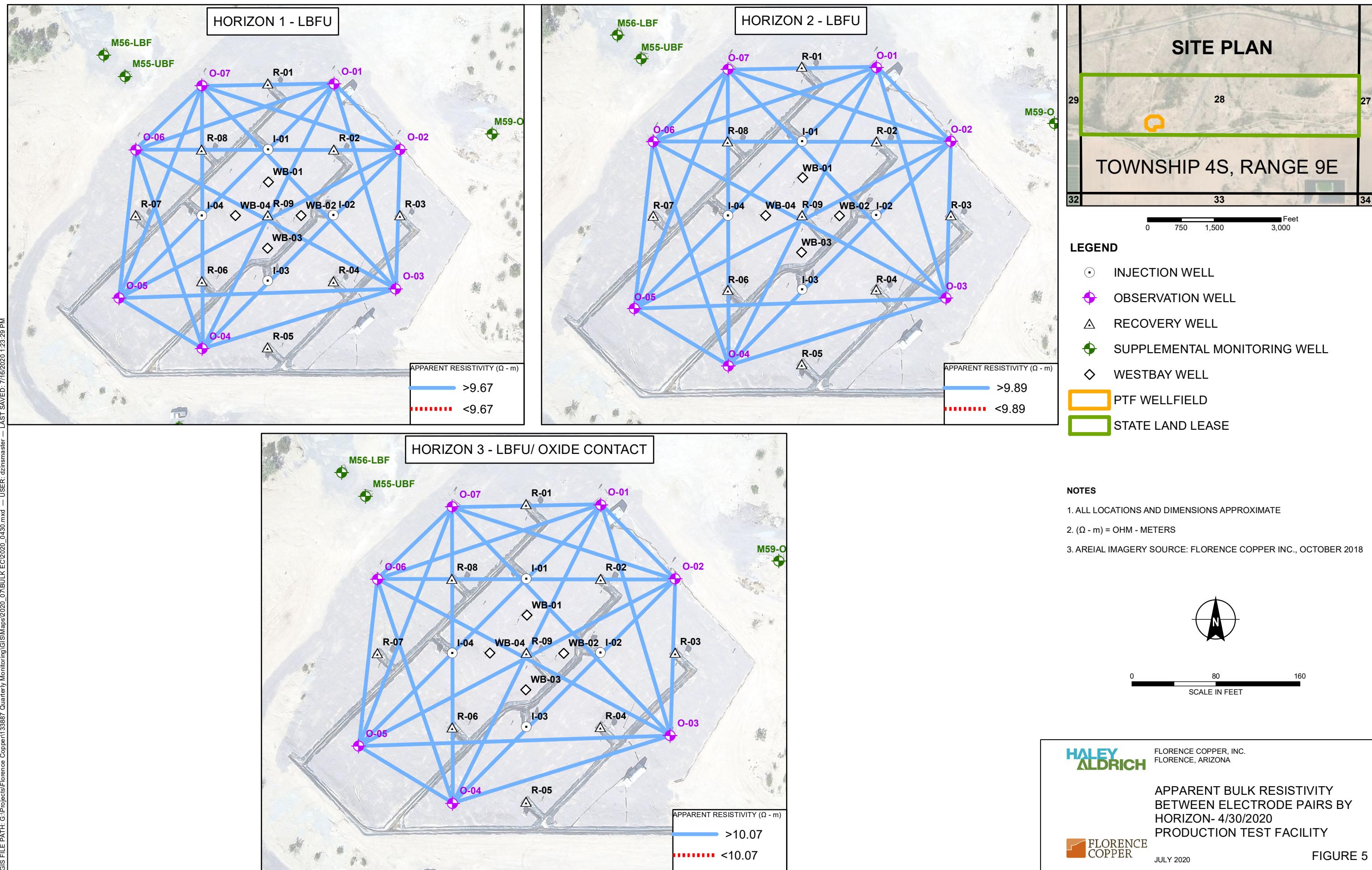
FIGURES

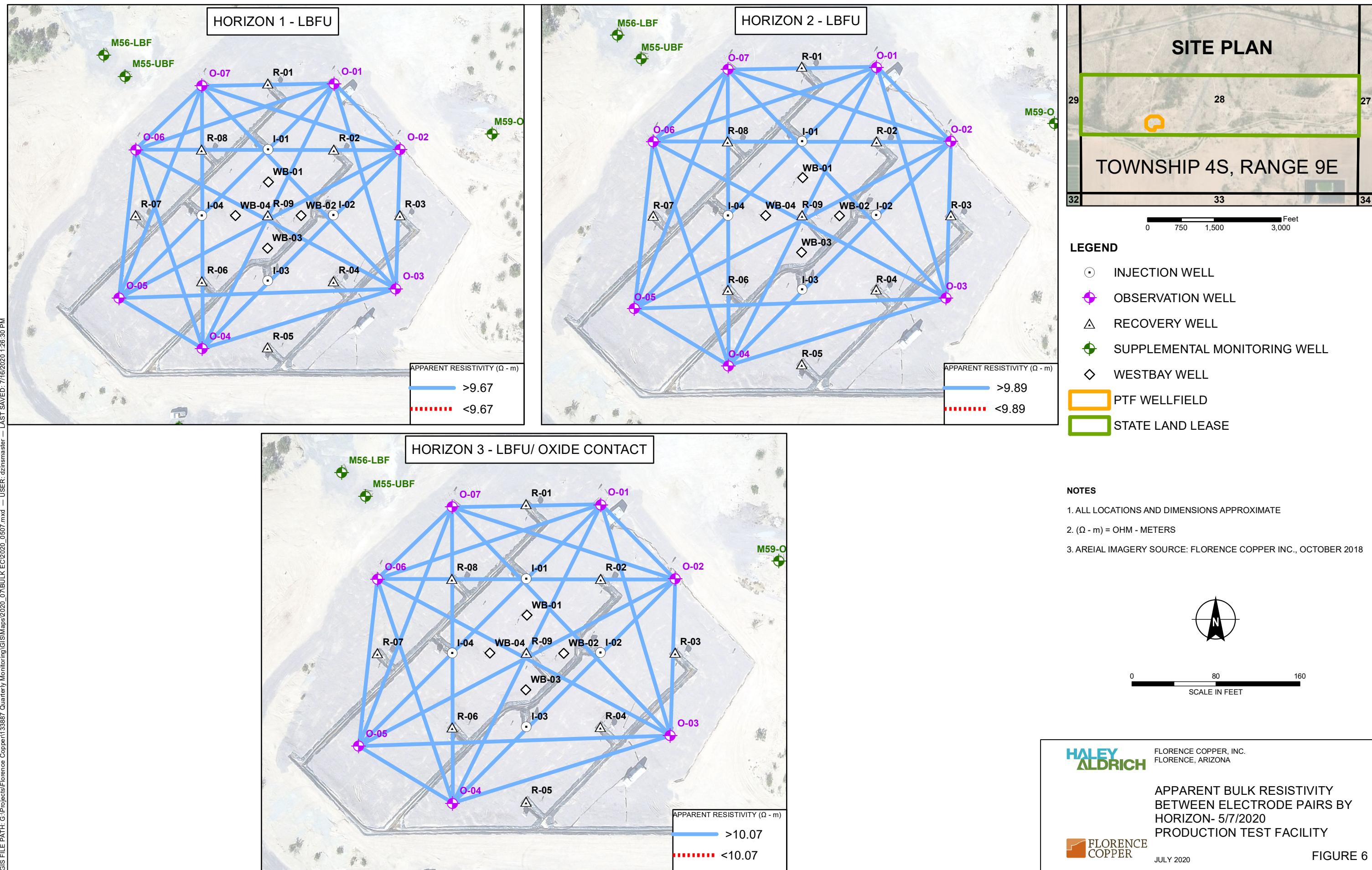


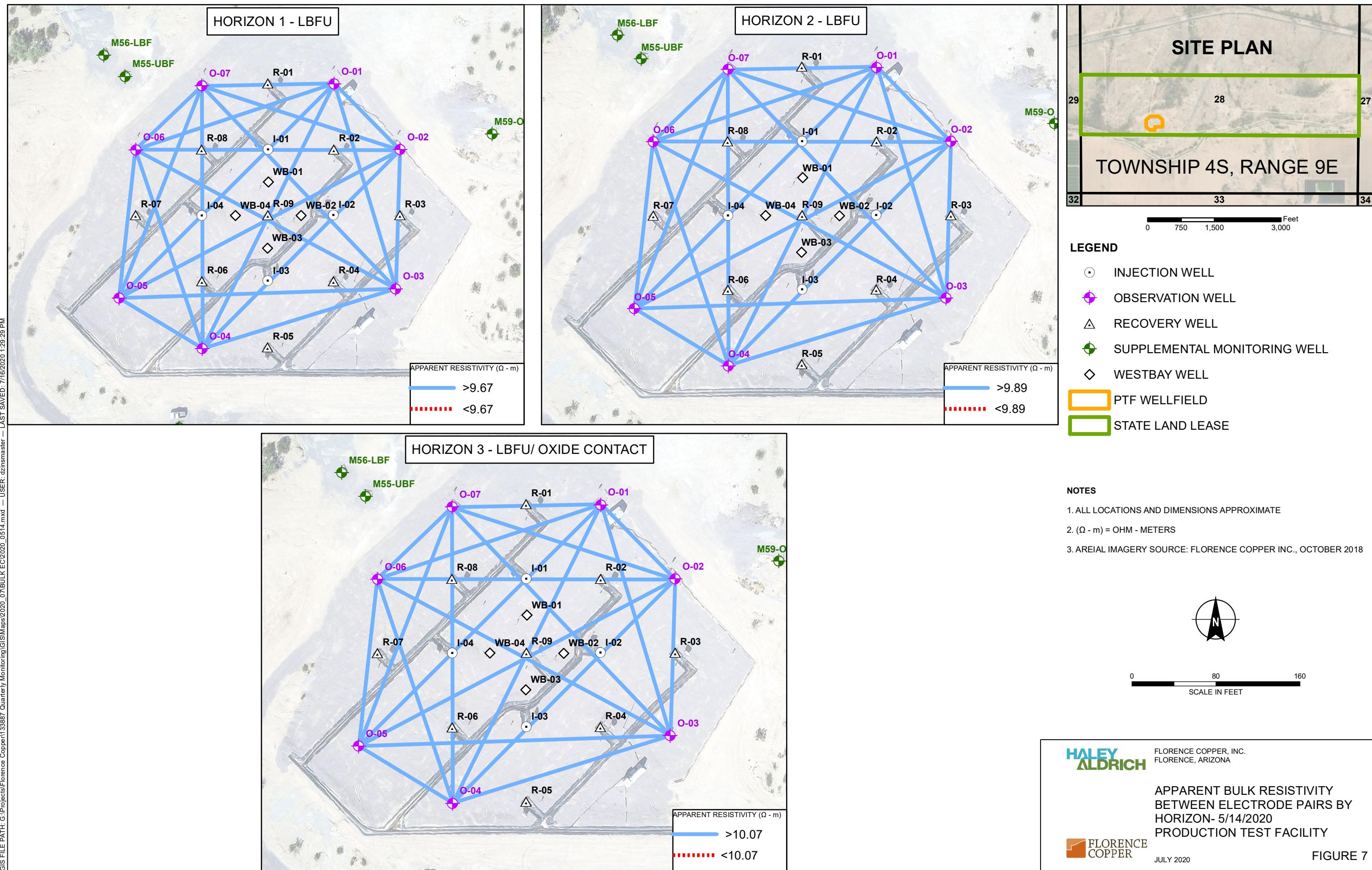


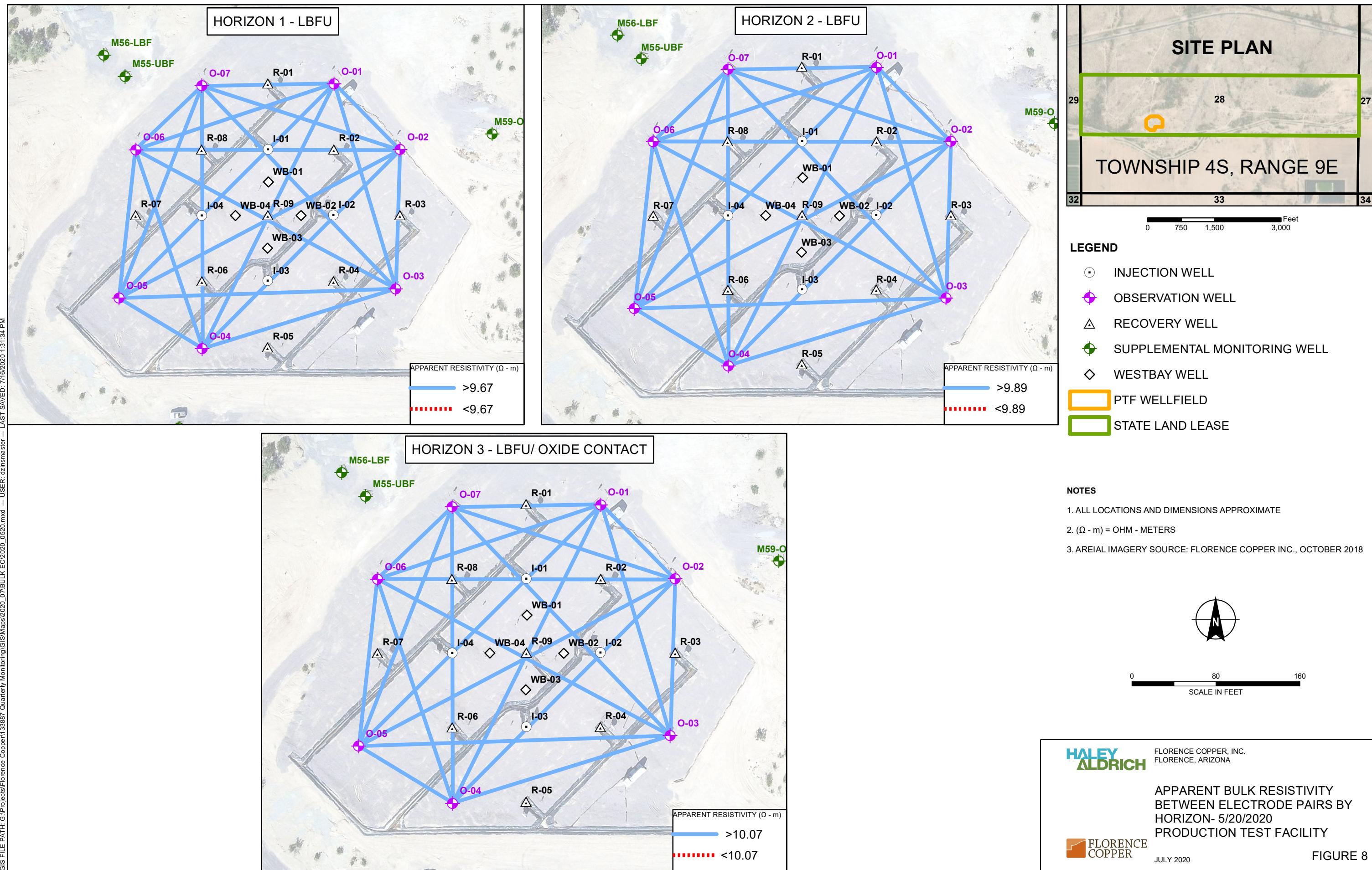


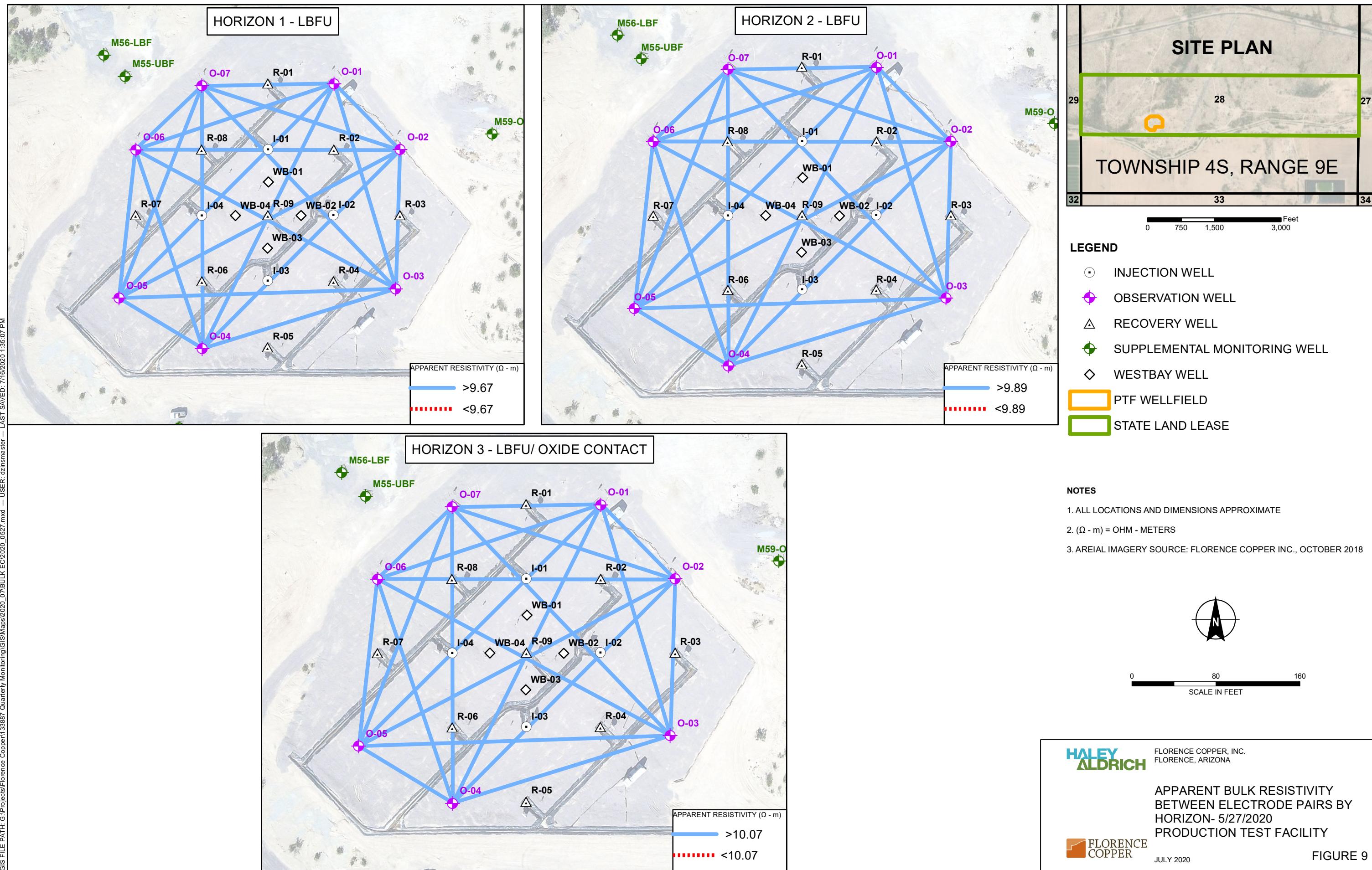


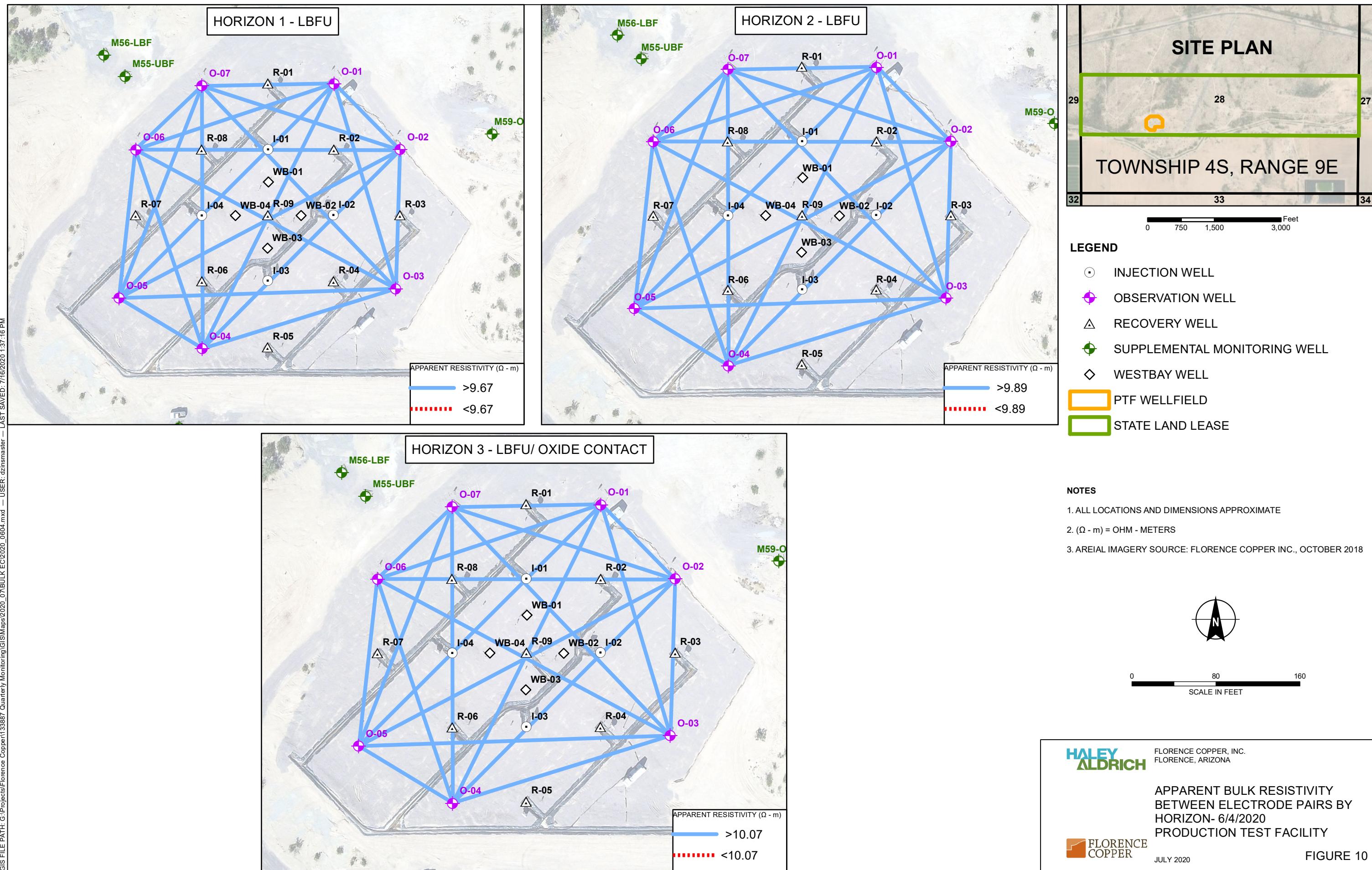


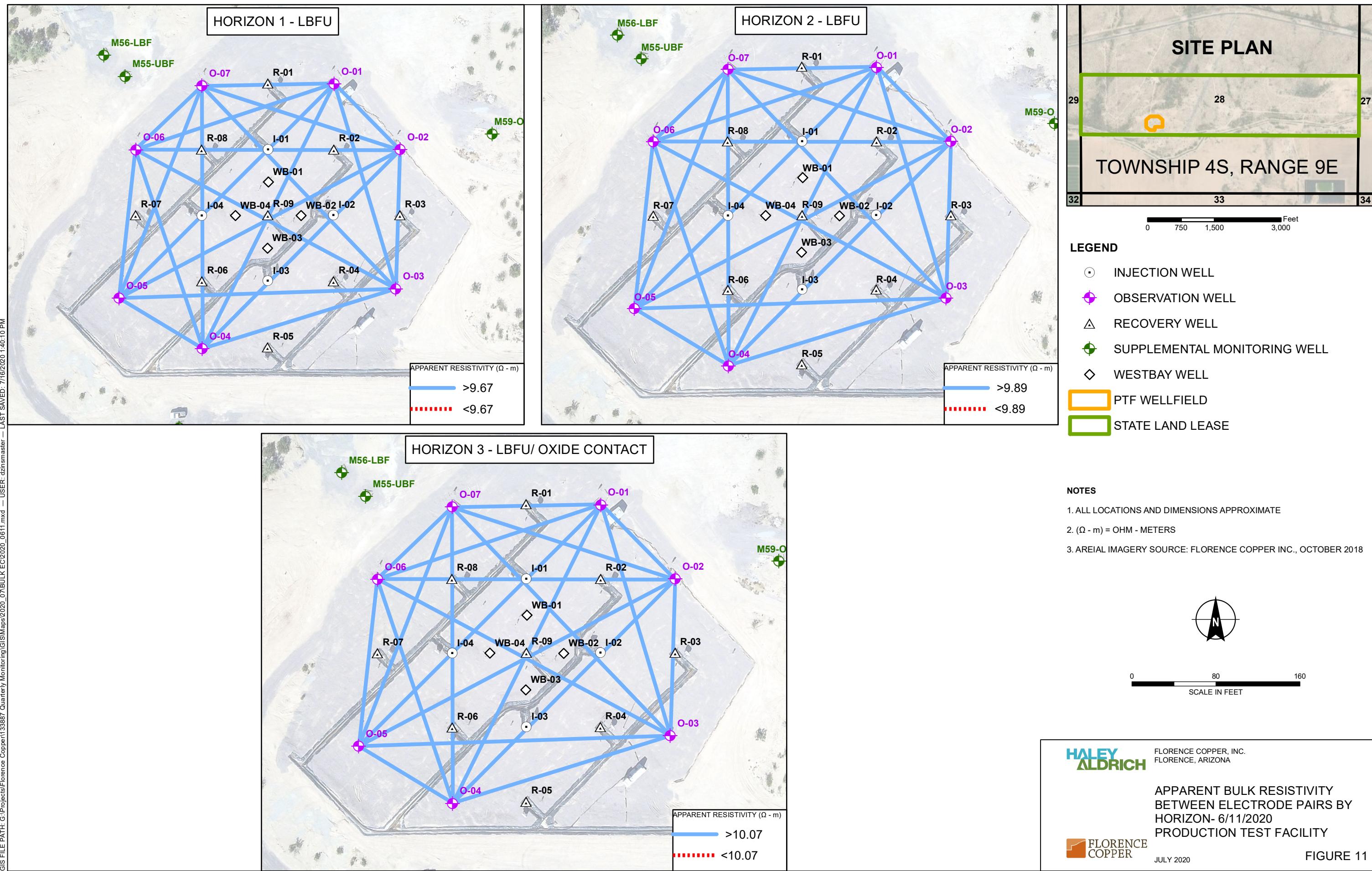


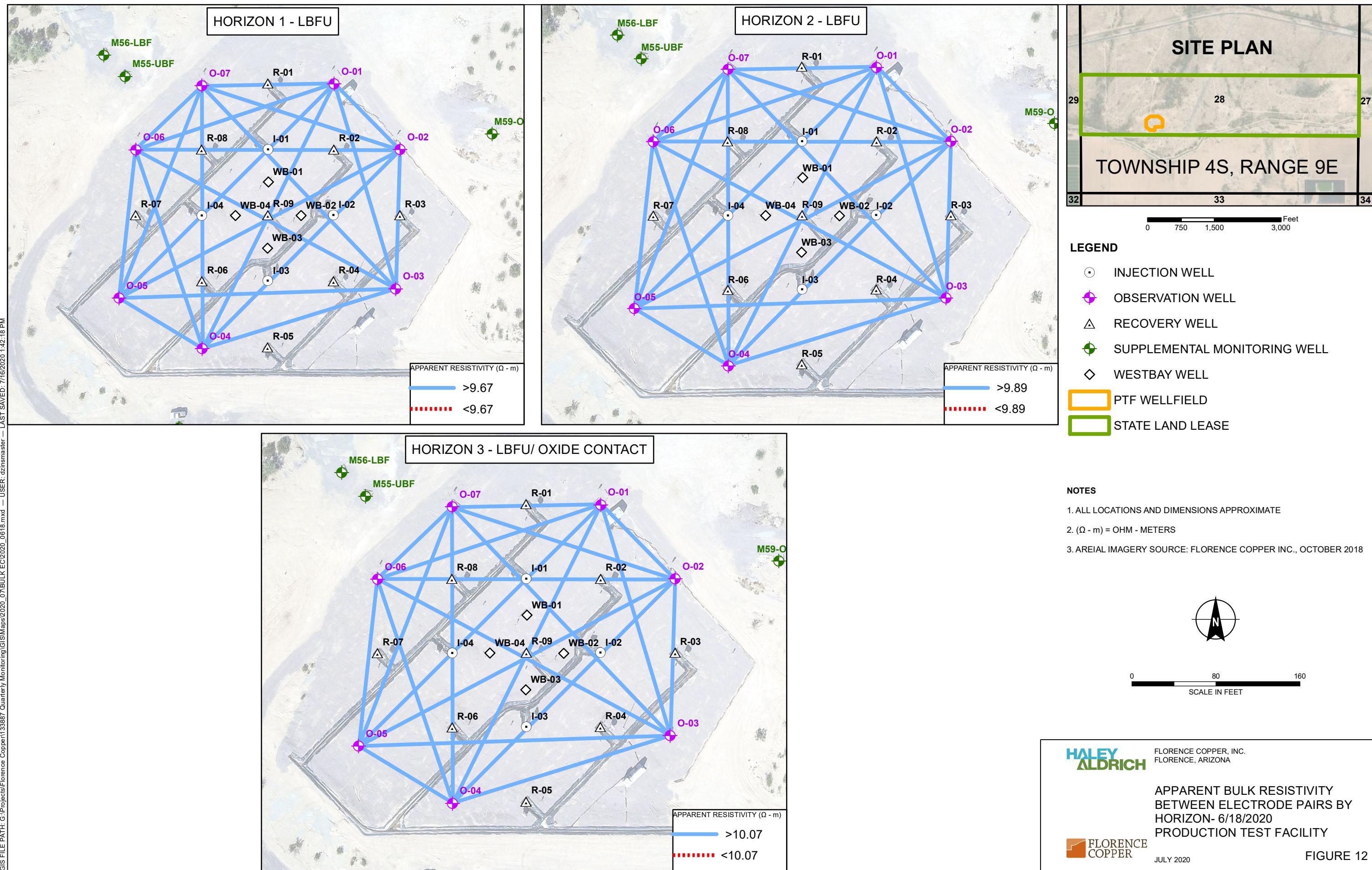


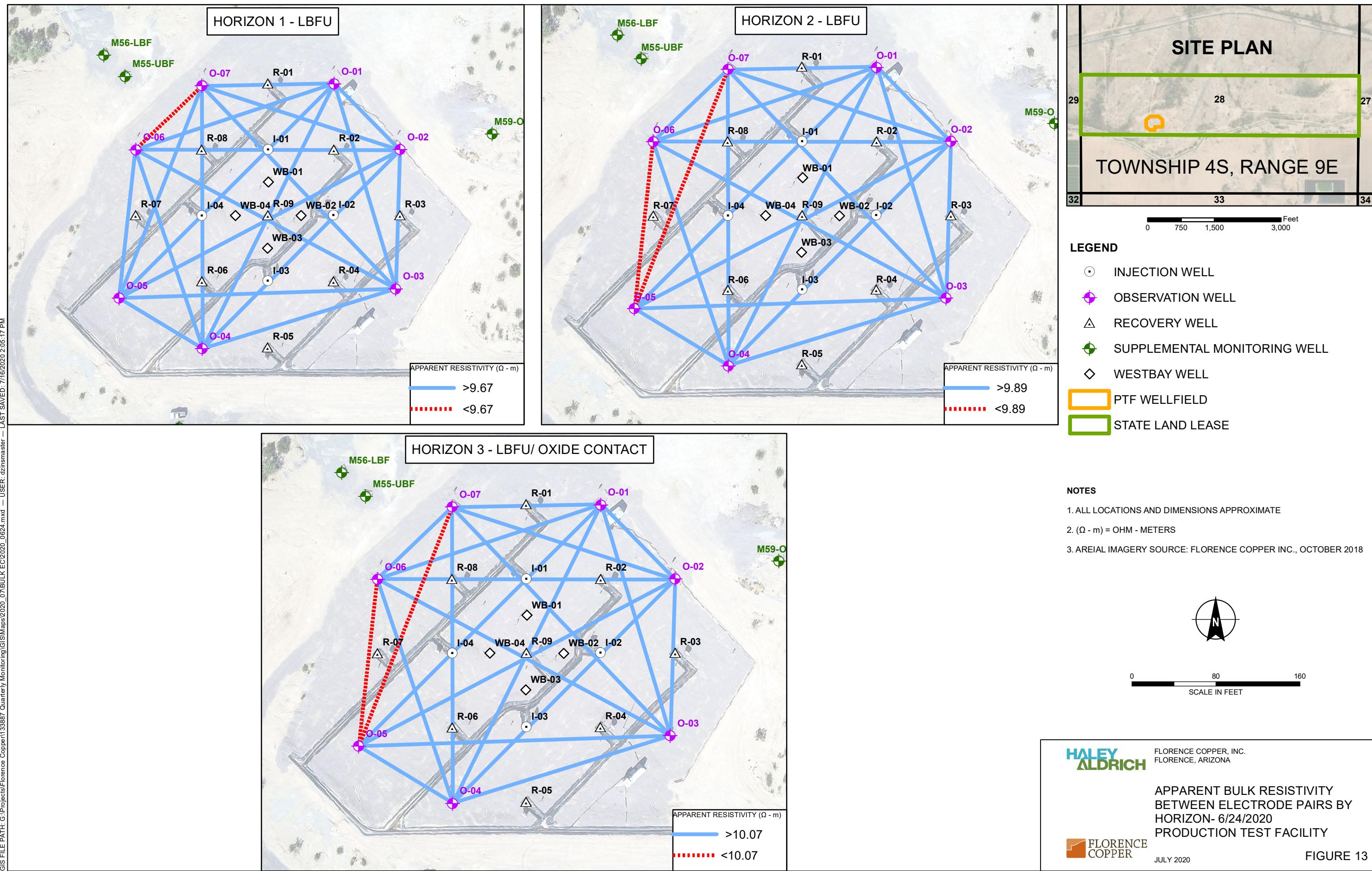








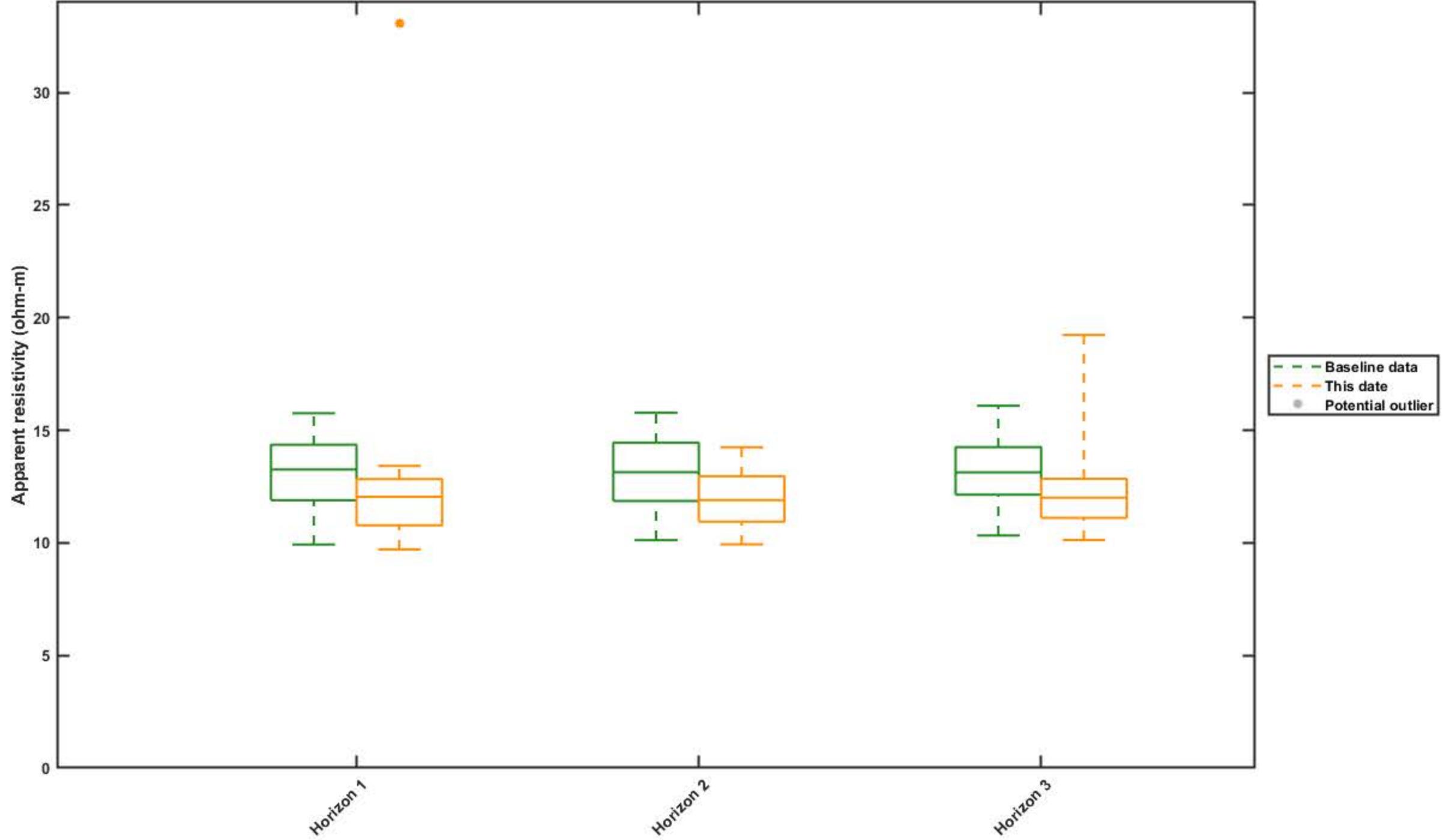




ATTACHMENT A

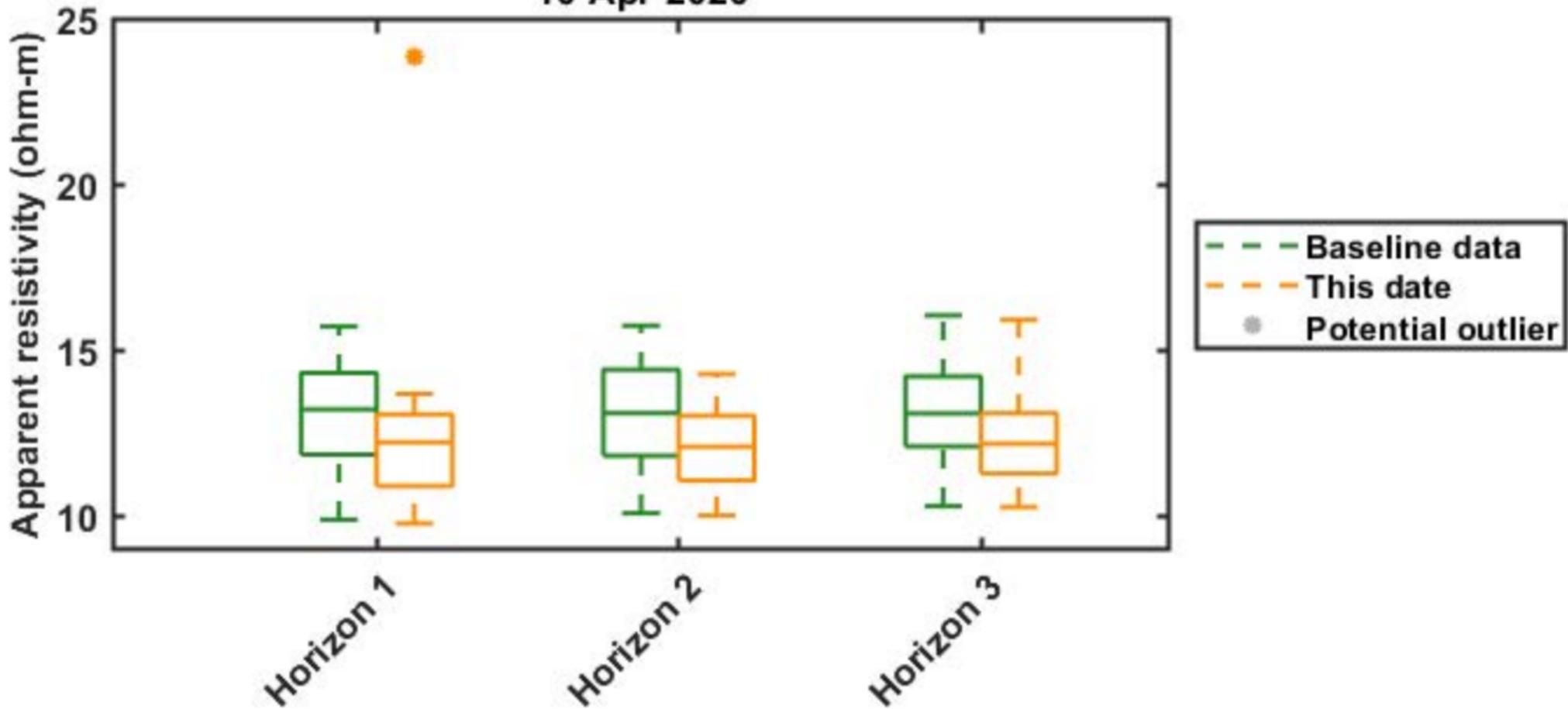
Box Diagrams for Second Quarter Monitoring Data

Florence electrical conductivity monitoring
02-Apr-2020



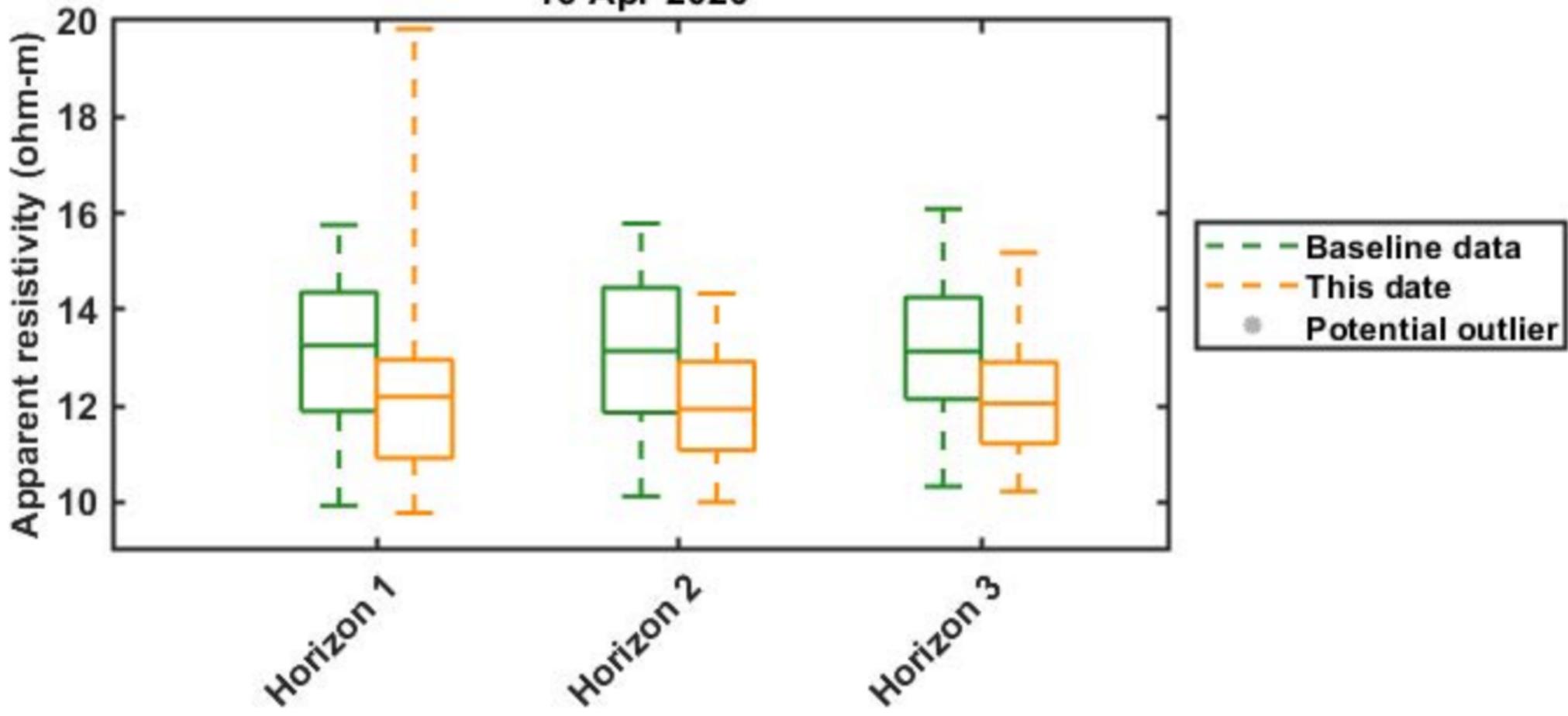
Florence electrical conductivity monitoring

10-Apr-2020



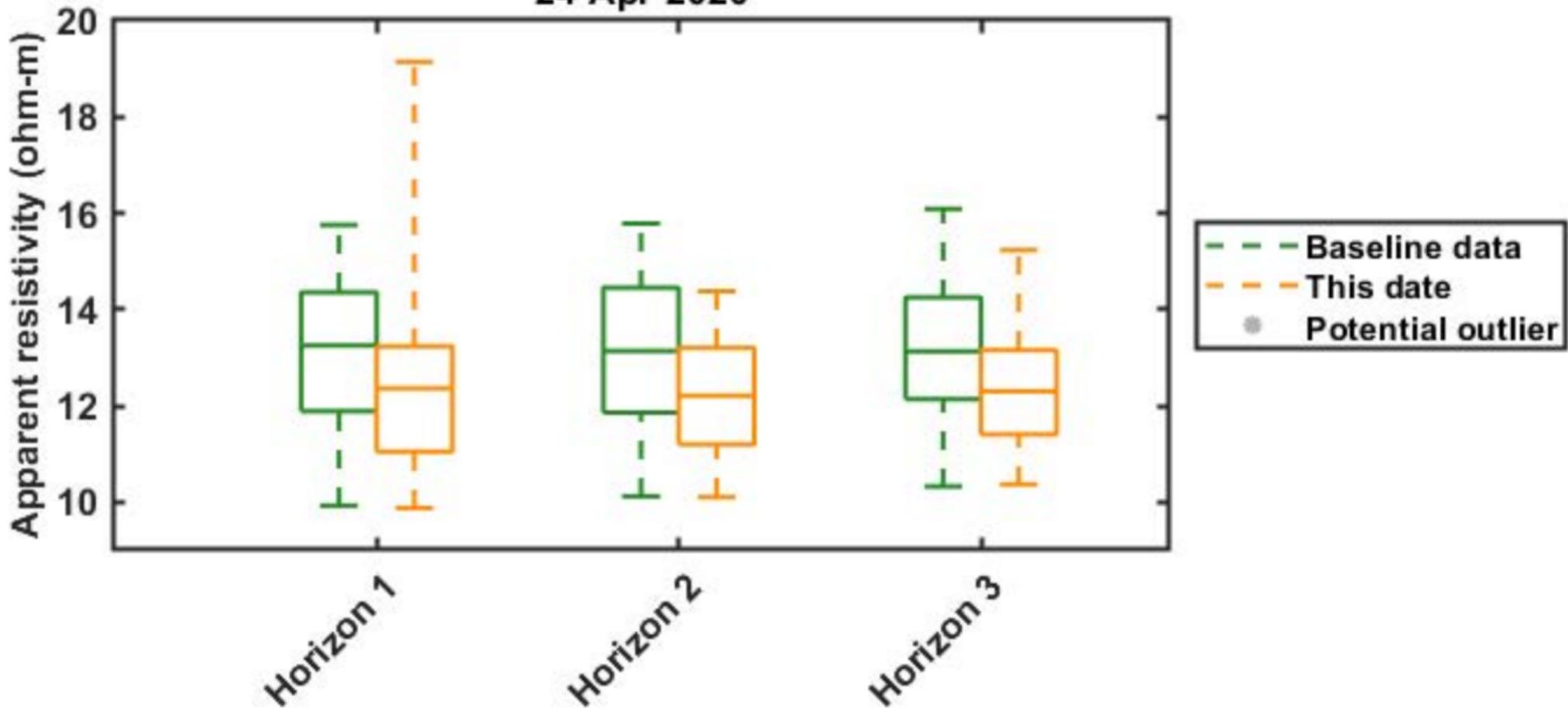
Florence electrical conductivity monitoring

16-Apr-2020



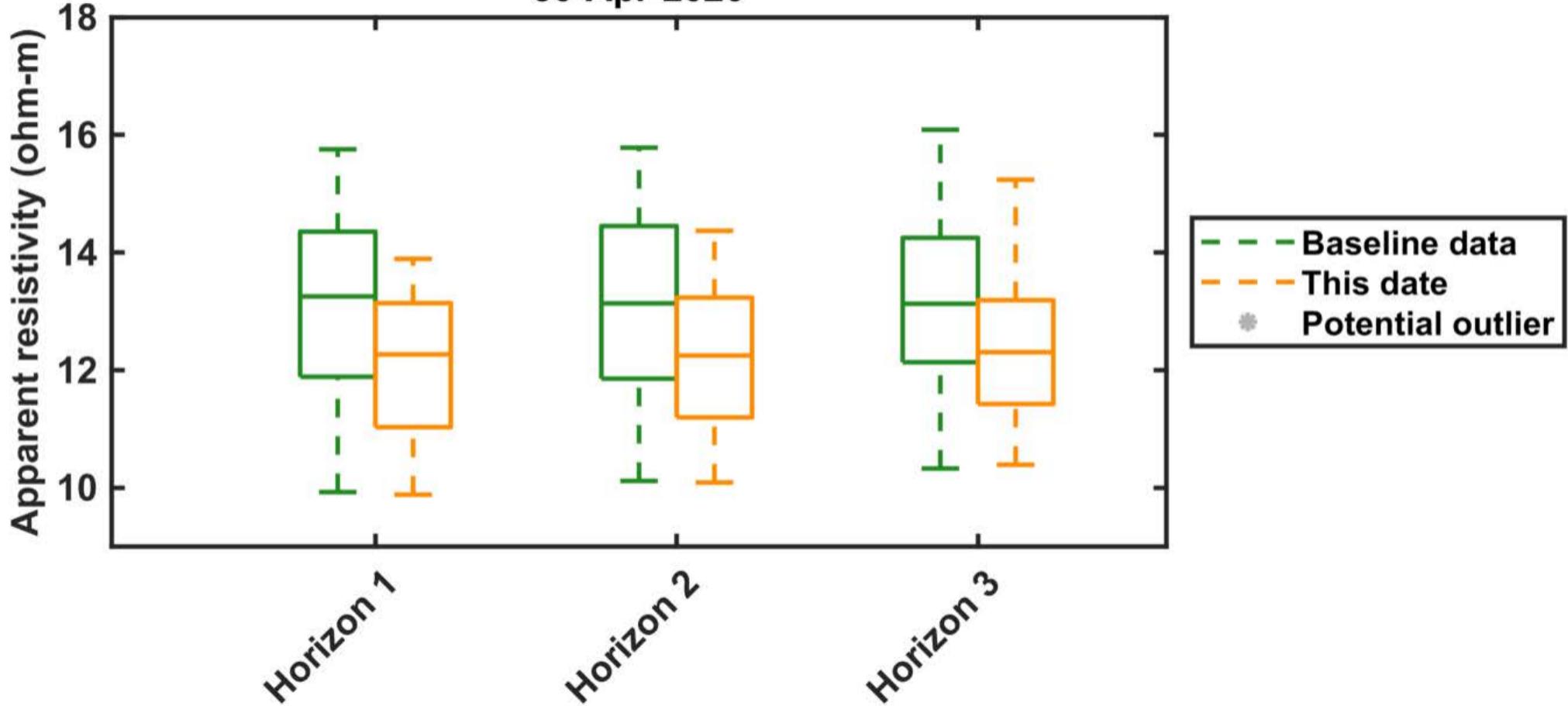
Florence electrical conductivity monitoring

24-Apr-2020



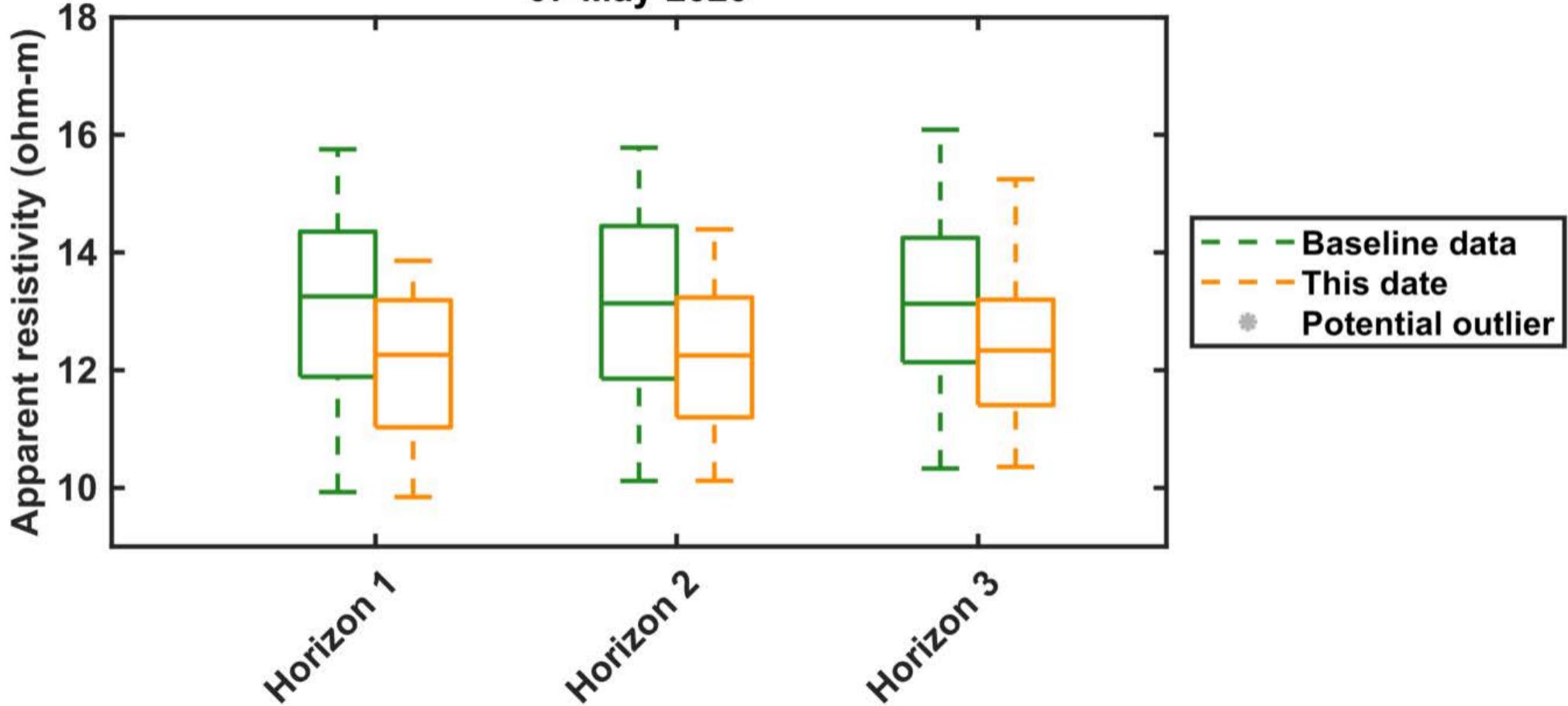
Florence electrical conductivity monitoring

30-Apr-2020



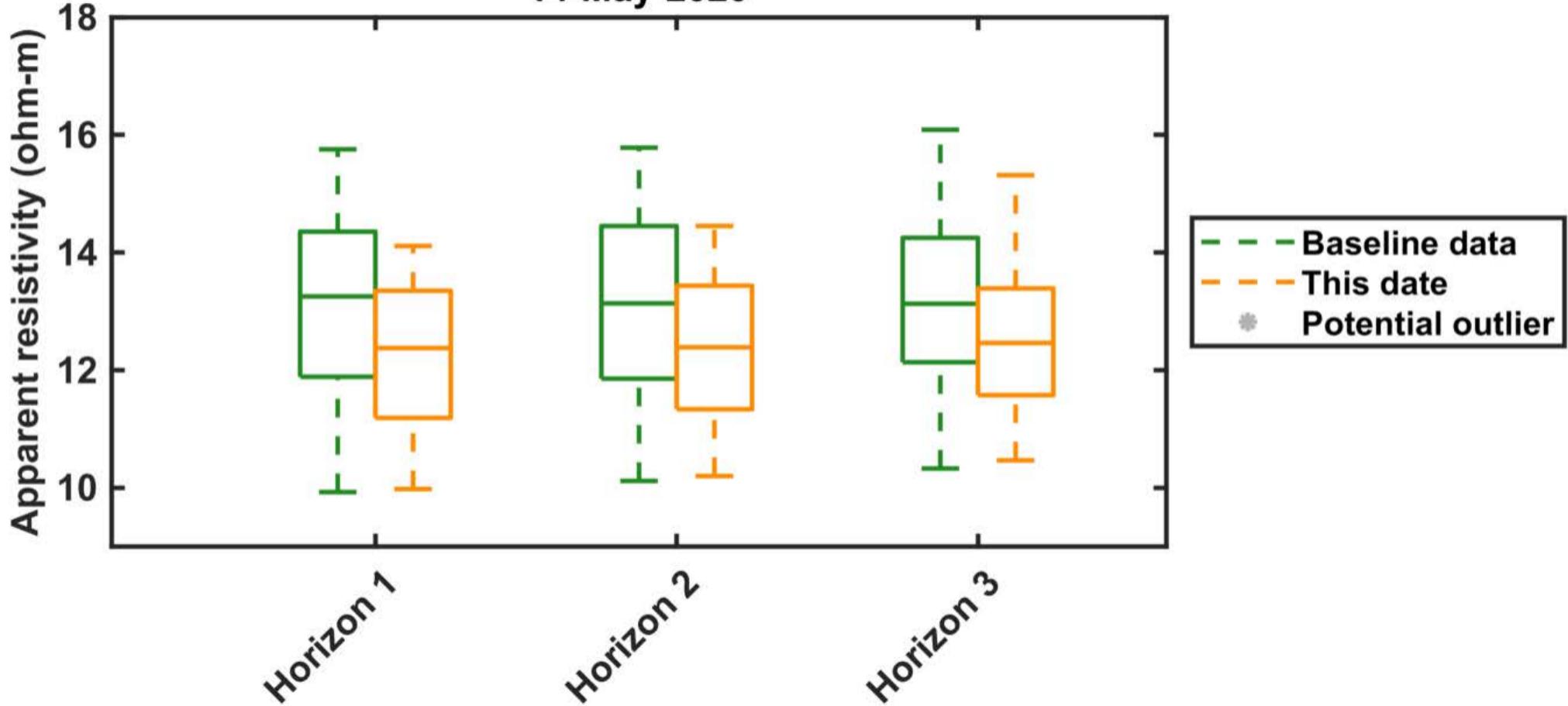
Florence electrical conductivity monitoring

07-May-2020



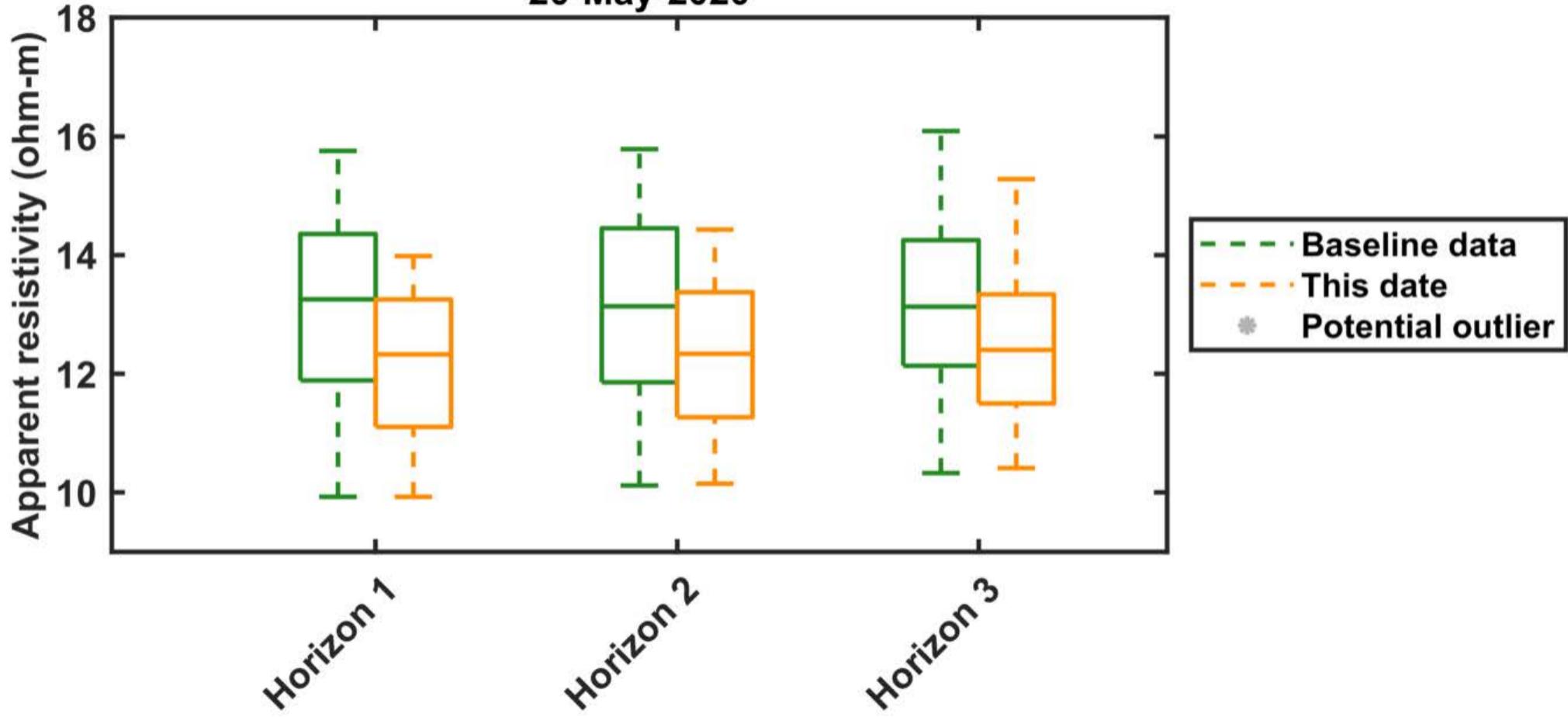
Florence electrical conductivity monitoring

14-May-2020



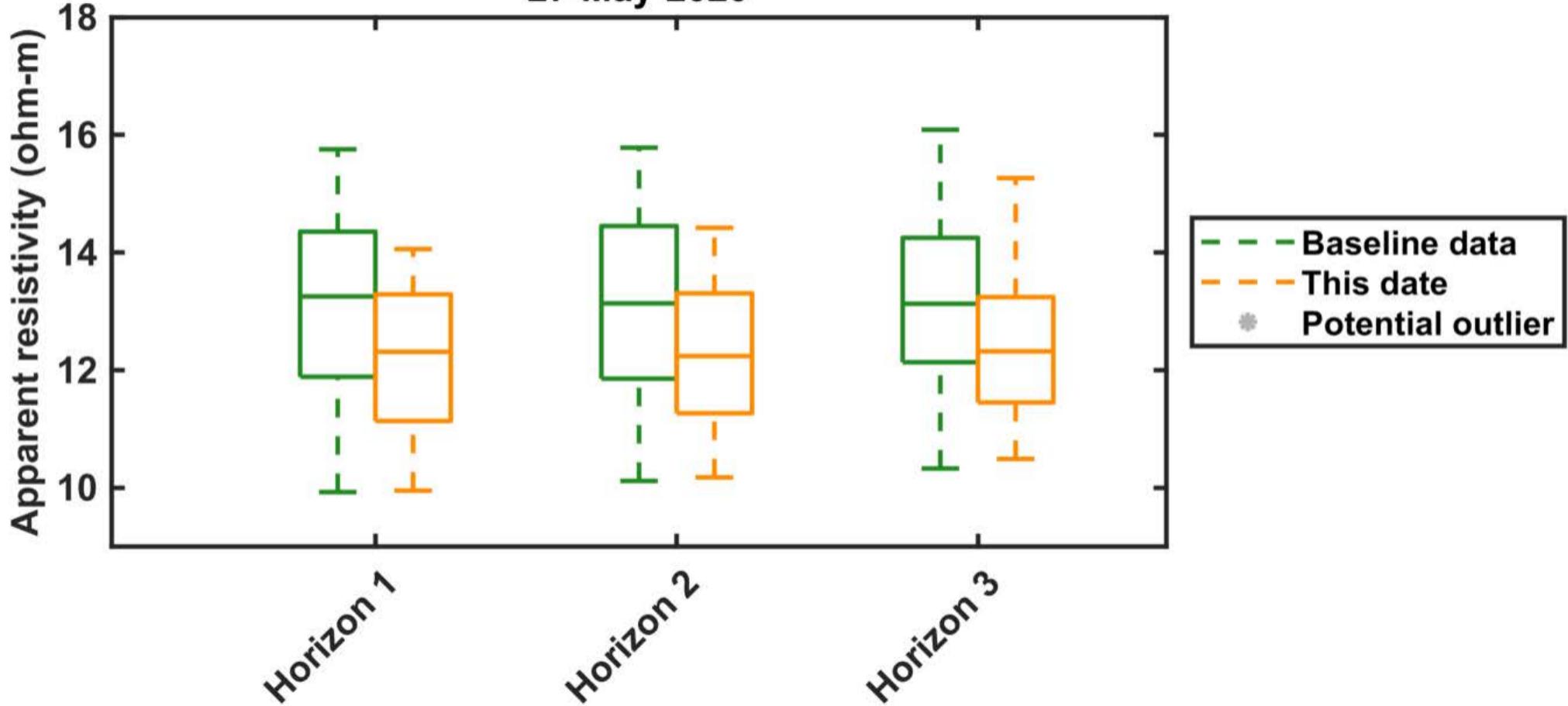
Florence electrical conductivity monitoring

20-May-2020



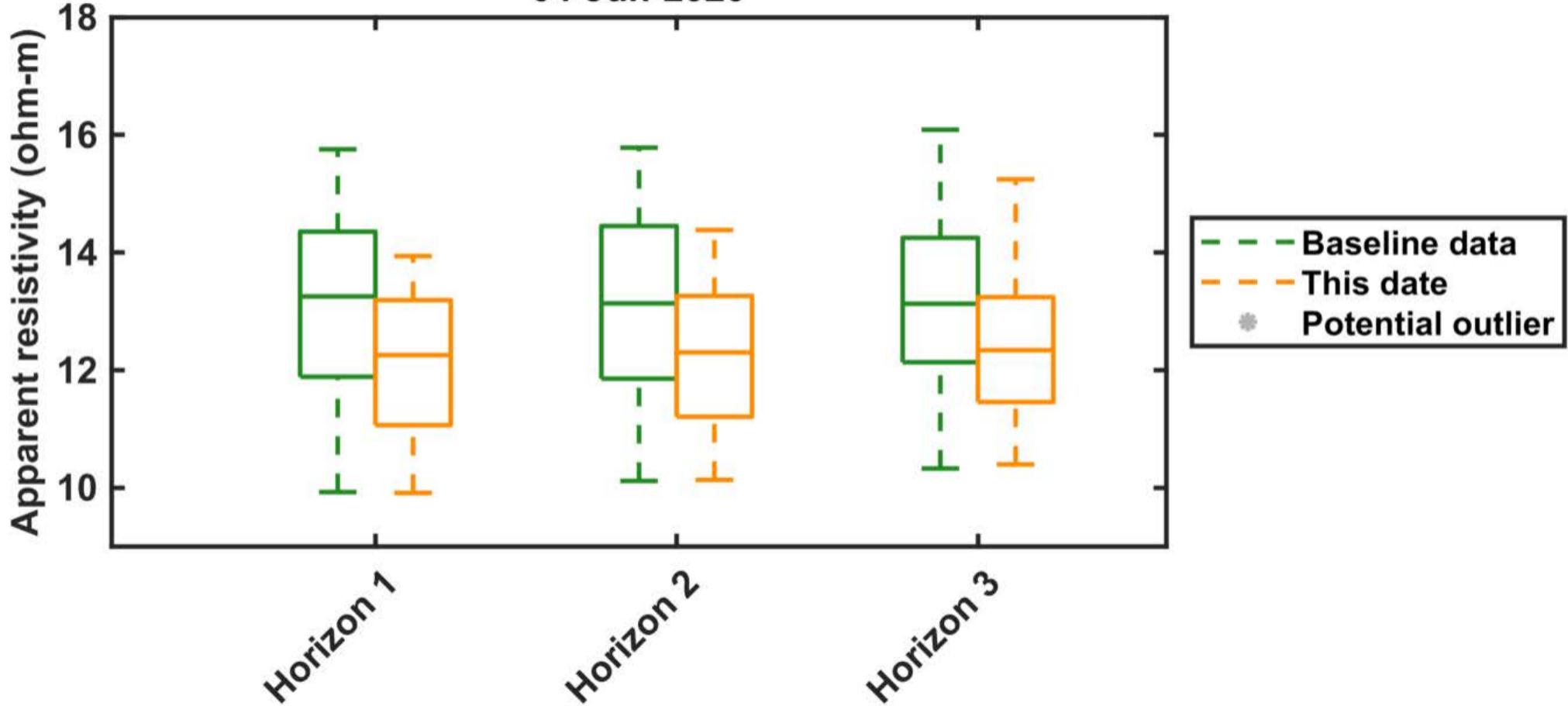
Florence electrical conductivity monitoring

27-May-2020



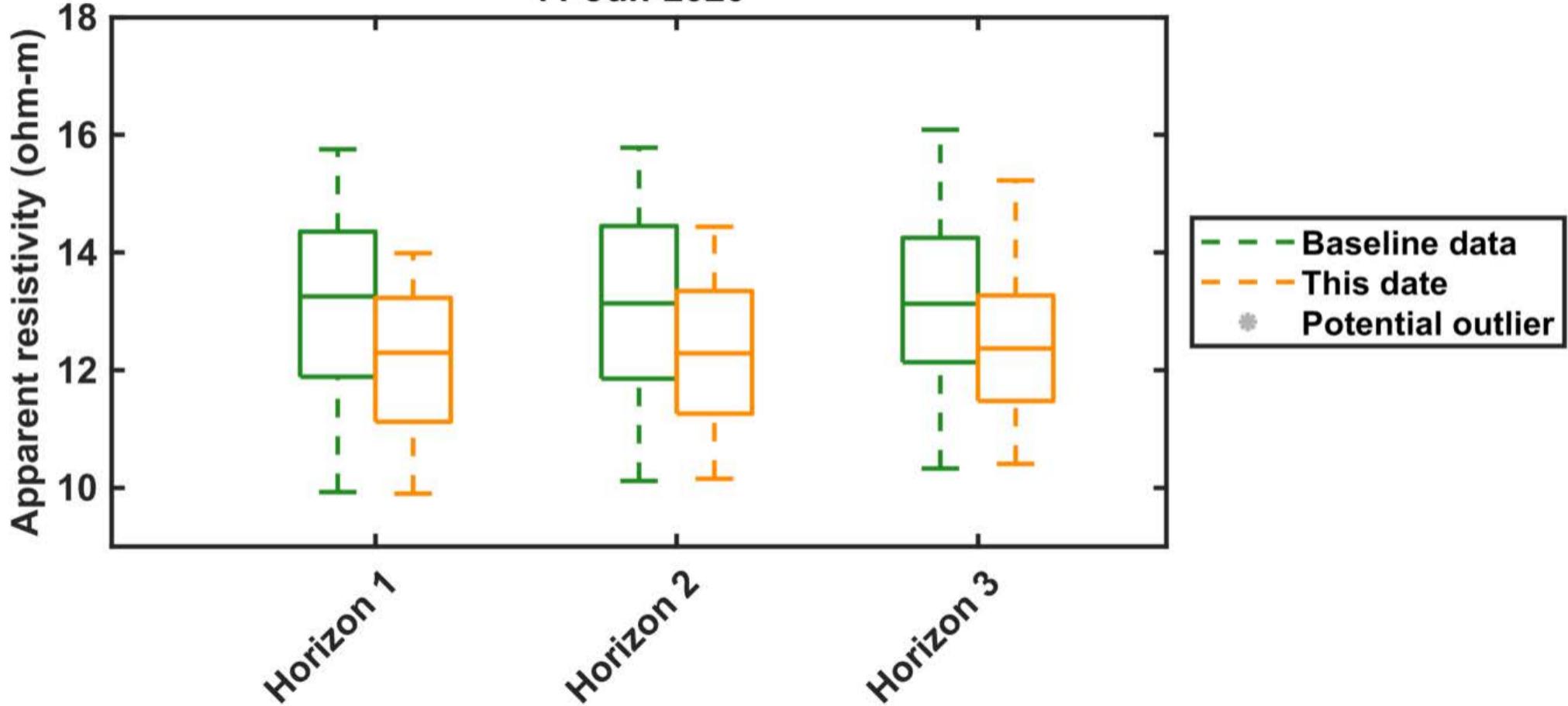
Florence electrical conductivity monitoring

04-Jun-2020



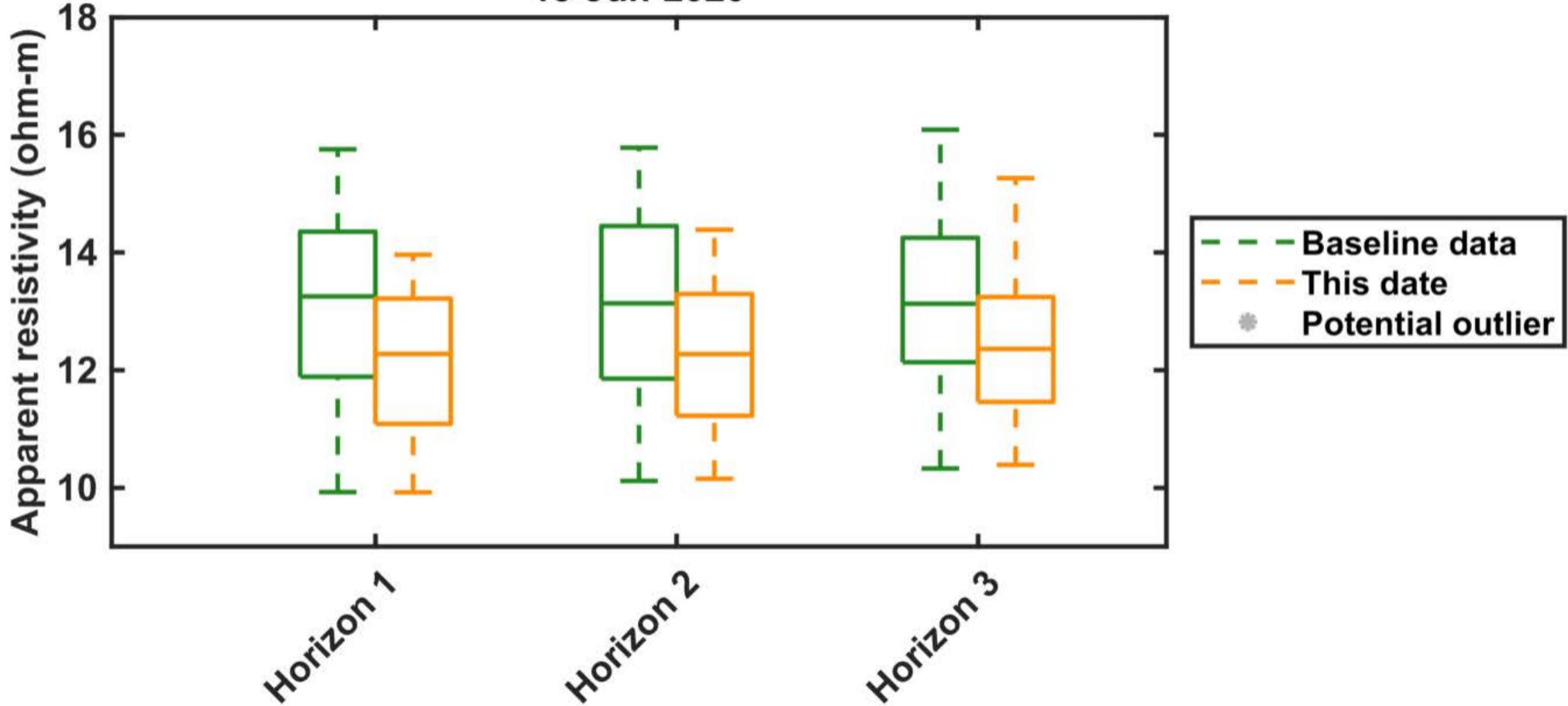
Florence electrical conductivity monitoring

11-Jun-2020



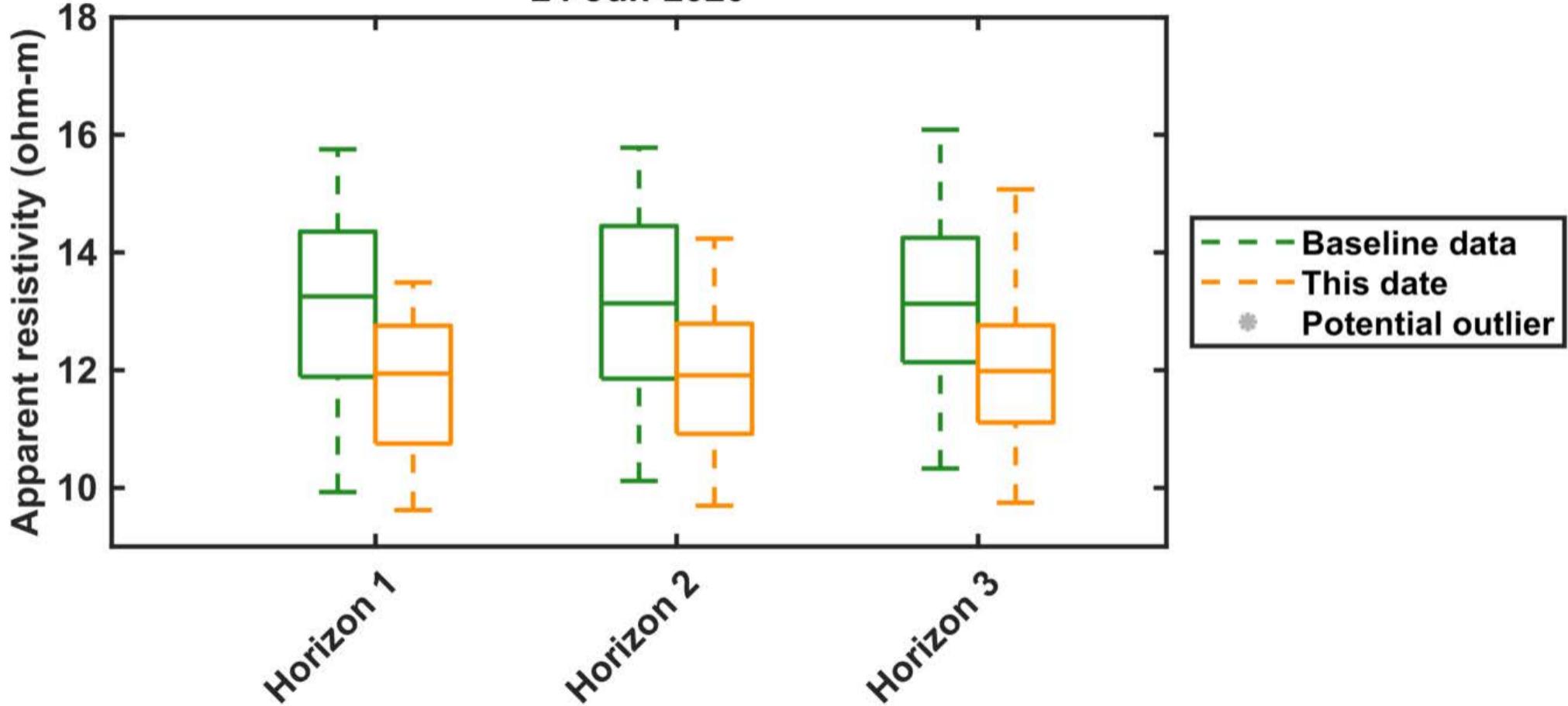
Florence electrical conductivity monitoring

18-Jun-2020



Florence electrical conductivity monitoring

24-Jun-2020

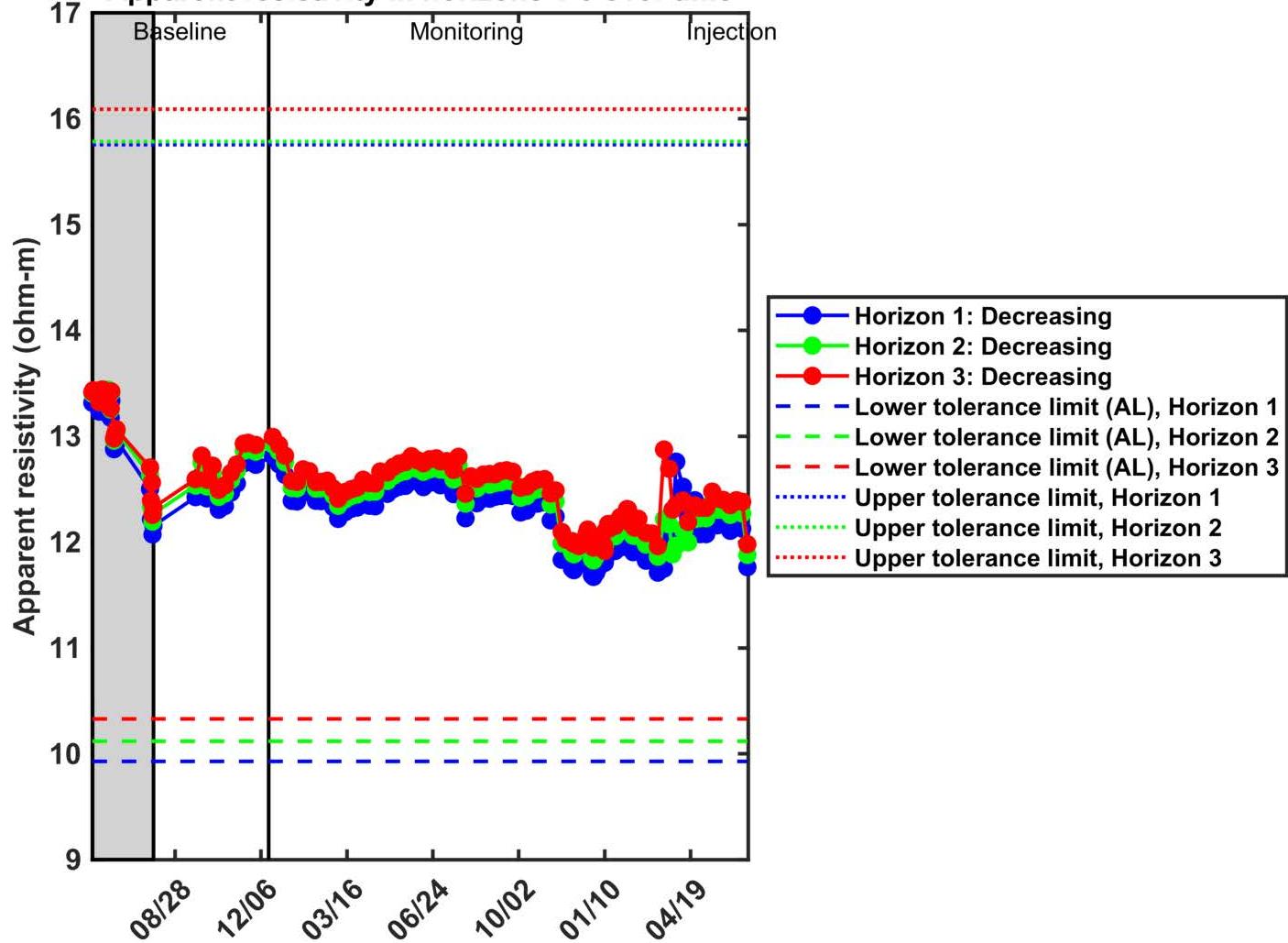


ATTACHMENT B

Summary Plot of Bulk Electrical Conductivity

Florence ambient electrical conductivity monitoring

Apparent resistivity in horizons 1-3 over time



ATTACHMENT 6

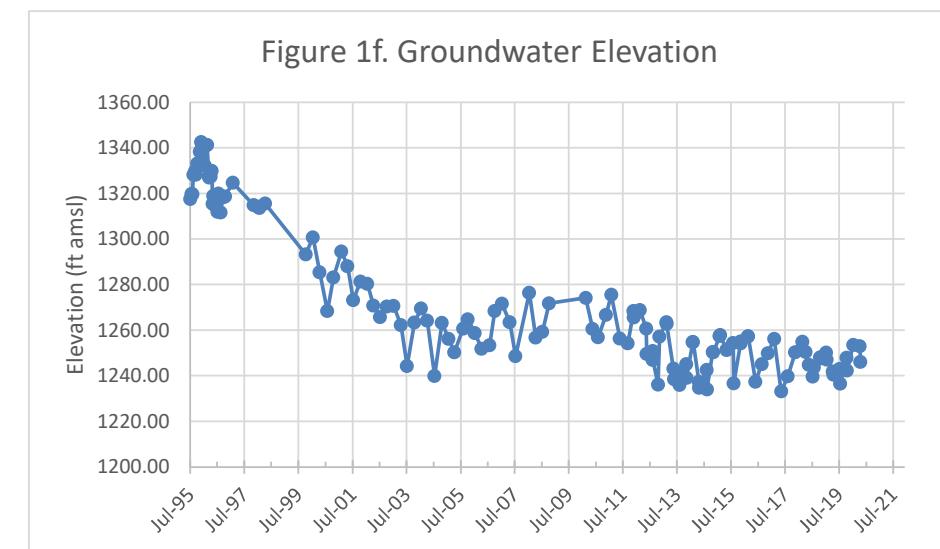
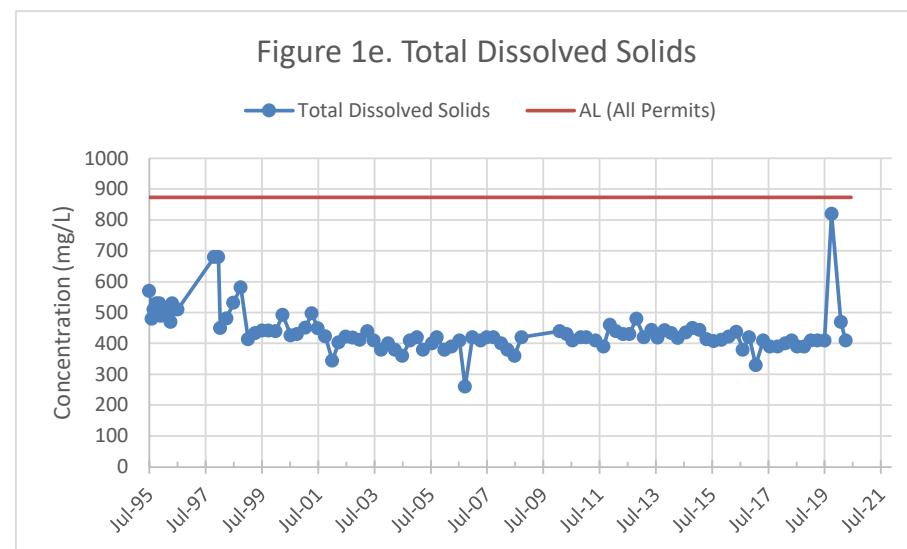
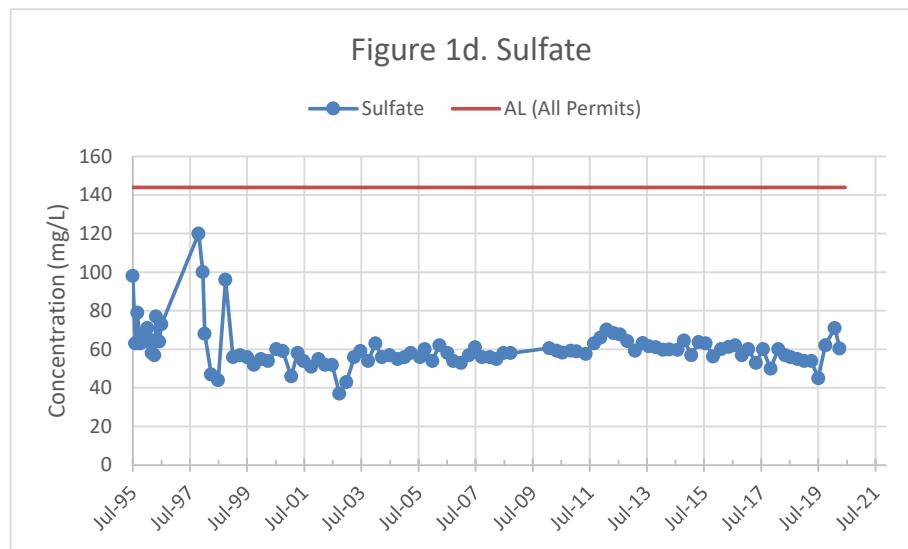
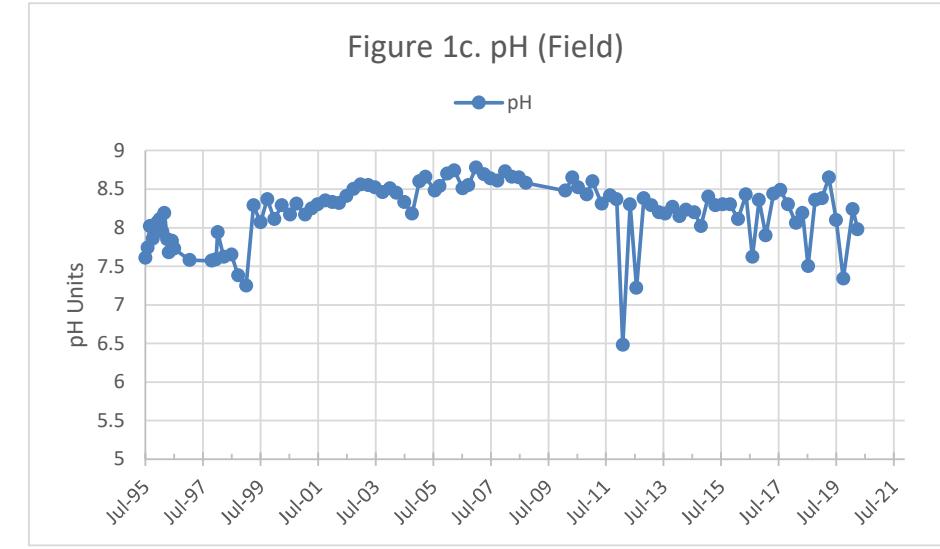
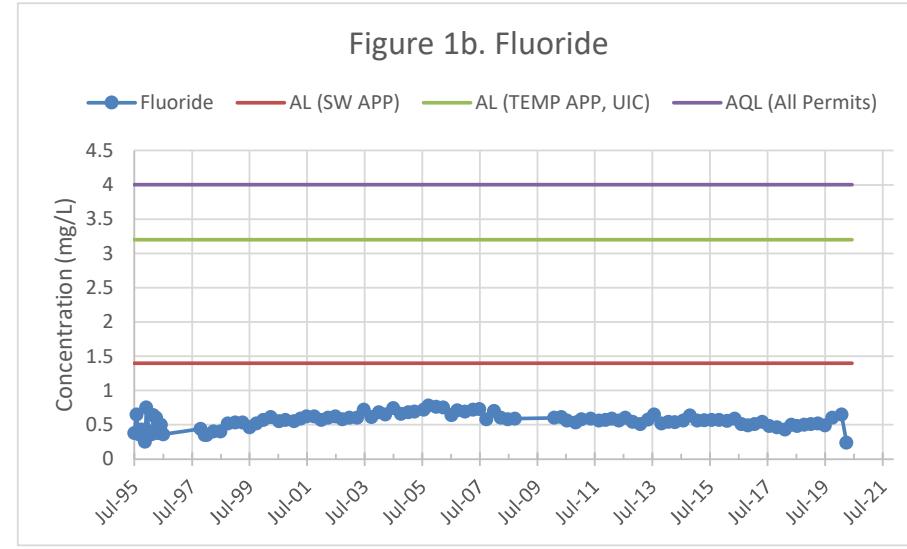
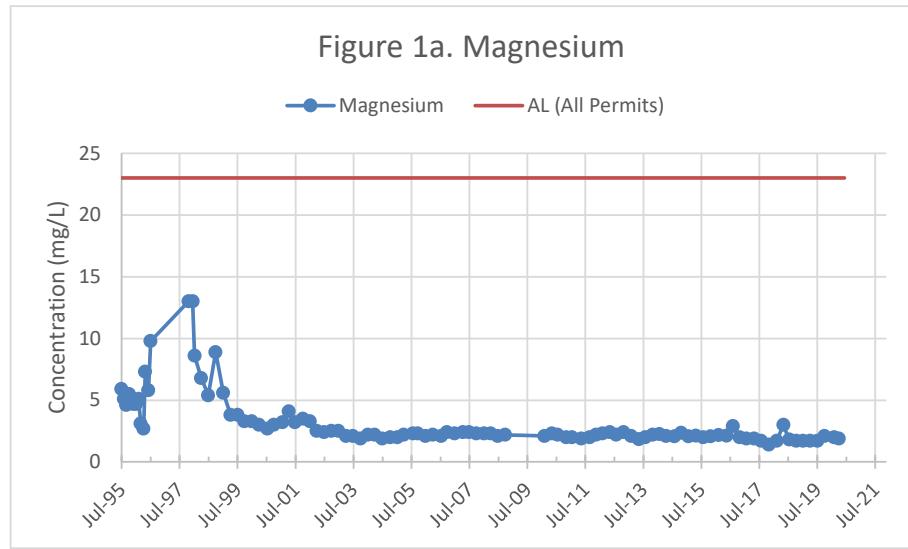
Table and Graphs of Monitor Well Water Levels and Analytical Results

- 6A. Quarterly Concentration Graphs**
- 6B. Well Details and Water Level Elevations**
- 6C. Groundwater Monitoring Summary**

ATTACHMENT 6A

Quarterly Concentration Graphs

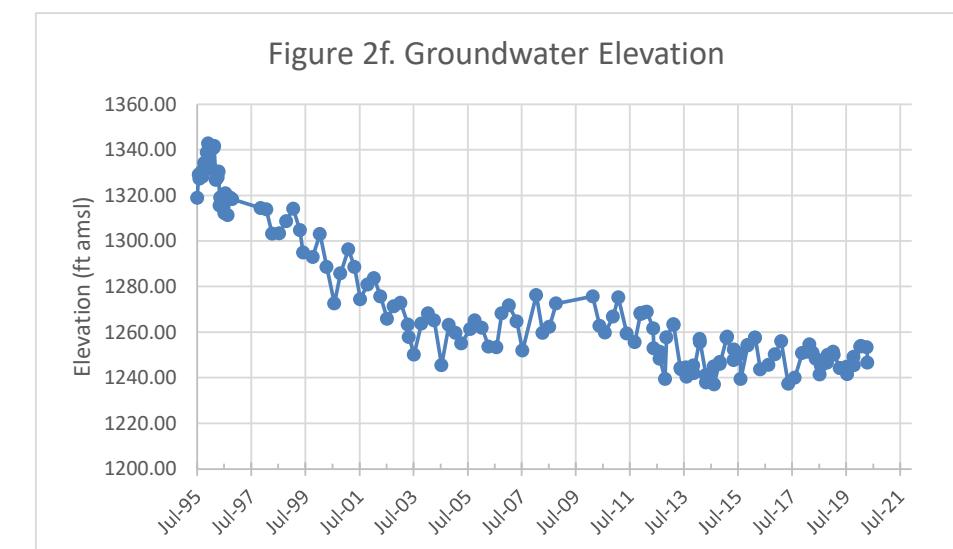
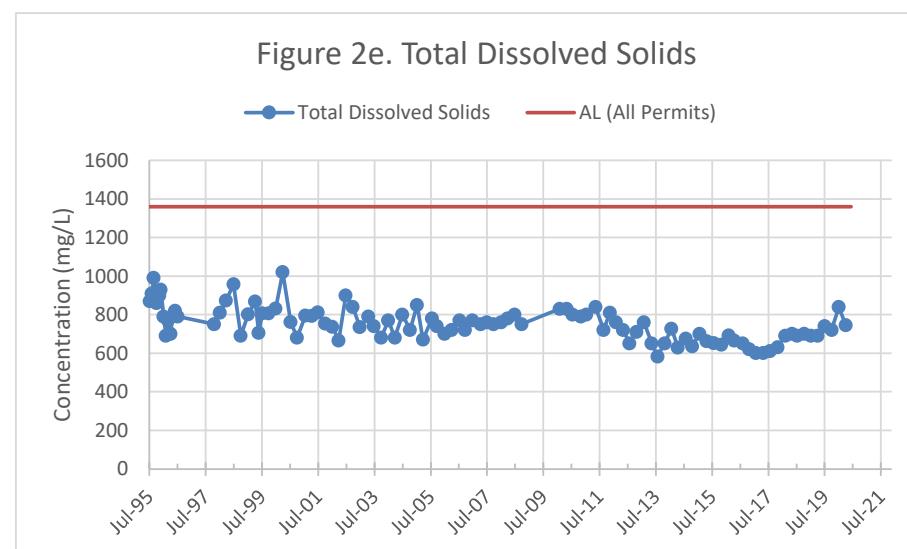
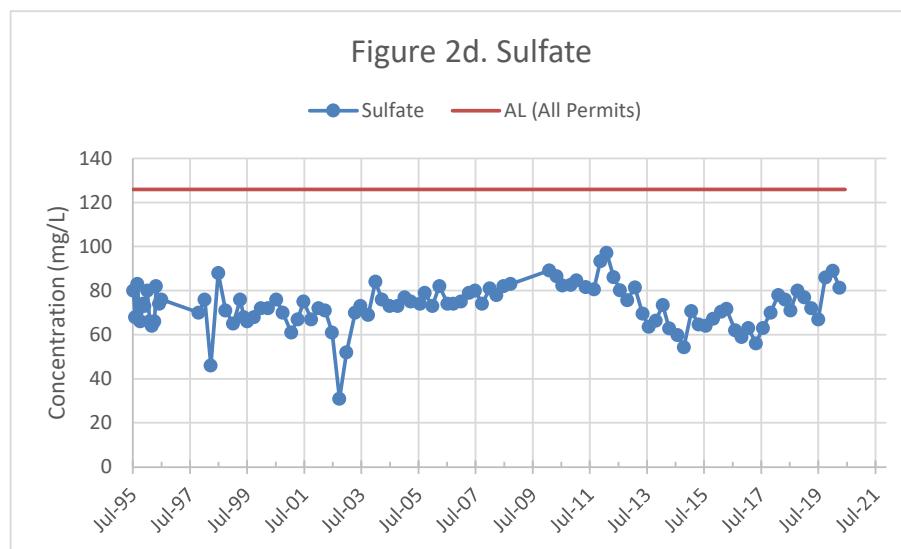
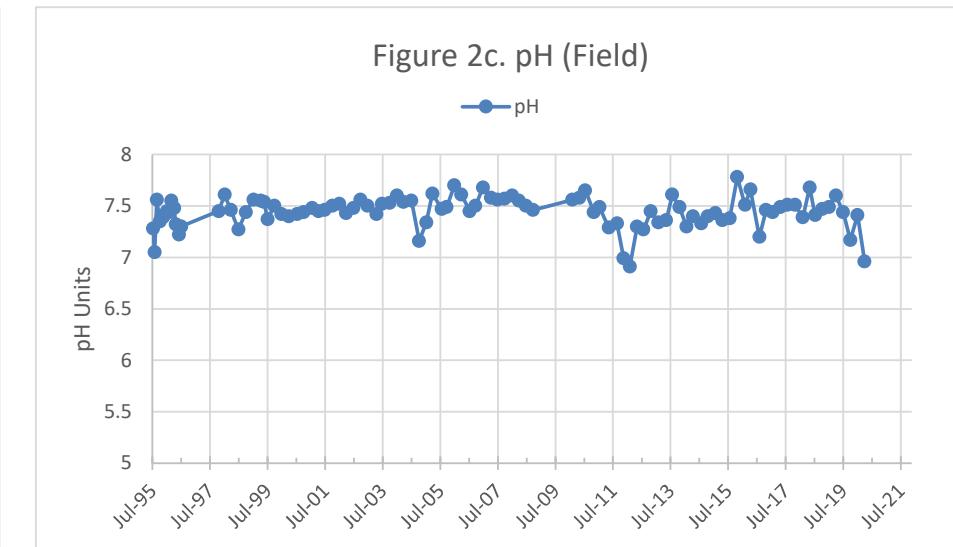
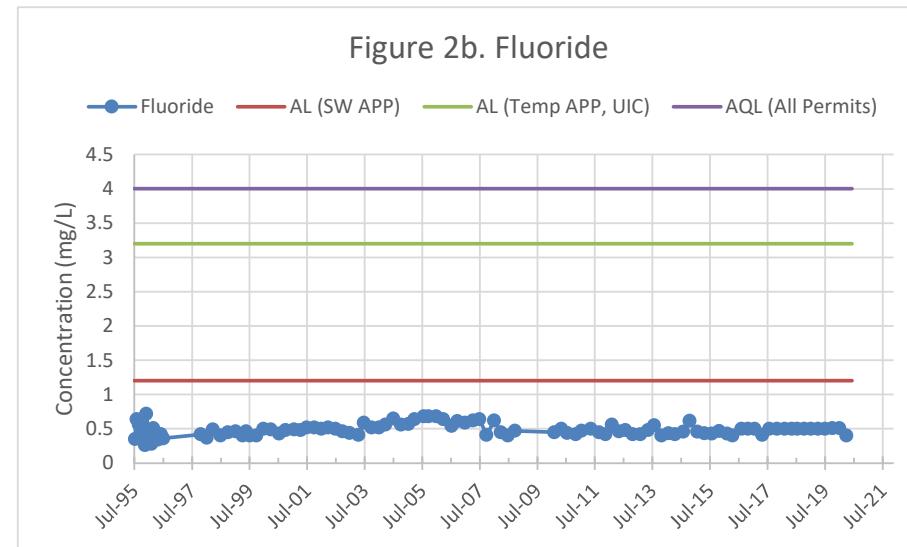
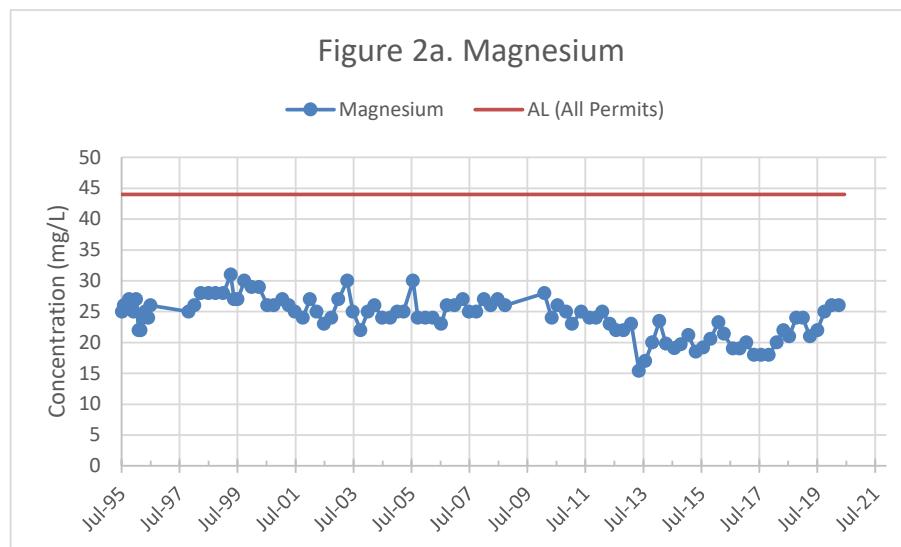
M14-GL QUARTERLY CONCENTRATION GRAPHS



Notes:

AL = Alert level
 APP = Aquifer Protection Permit
 AQL = Aquifer Quality Limit
 All Permits = SW APP, Temp APP, and UIC
 SW APP = Sitewide APP No. P-101704
 Temp APP = Temporary APP No P-106360
 UIC = Underground Injection Control
 UIC = UIC Permit No. R9UIC-AZ3-FY11-1

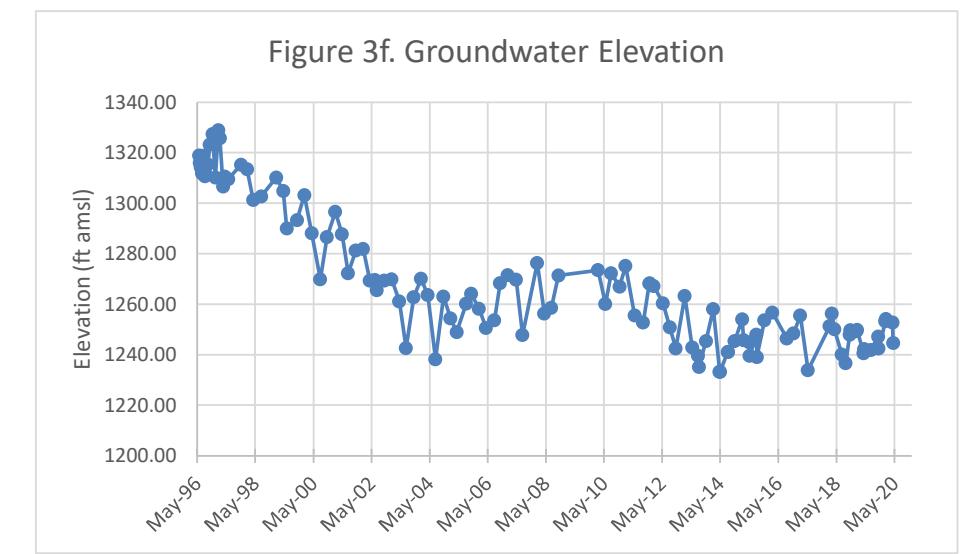
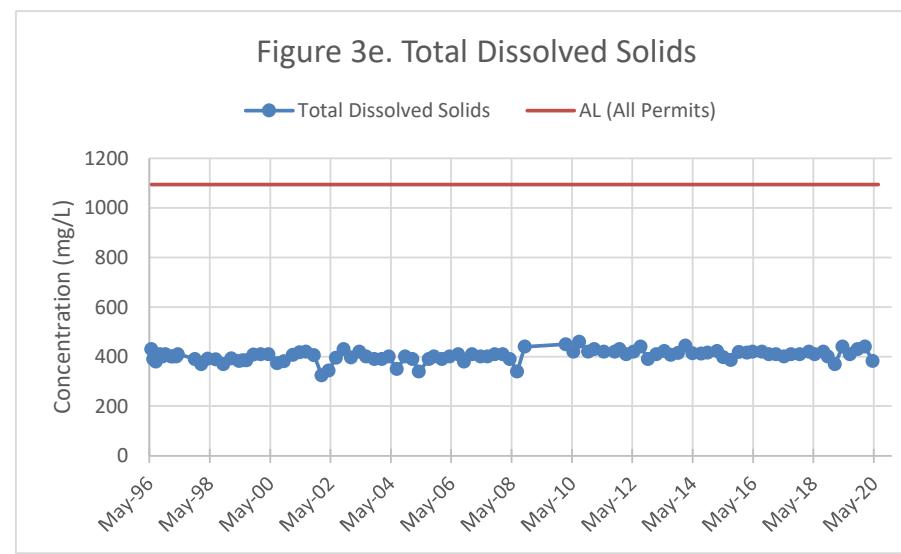
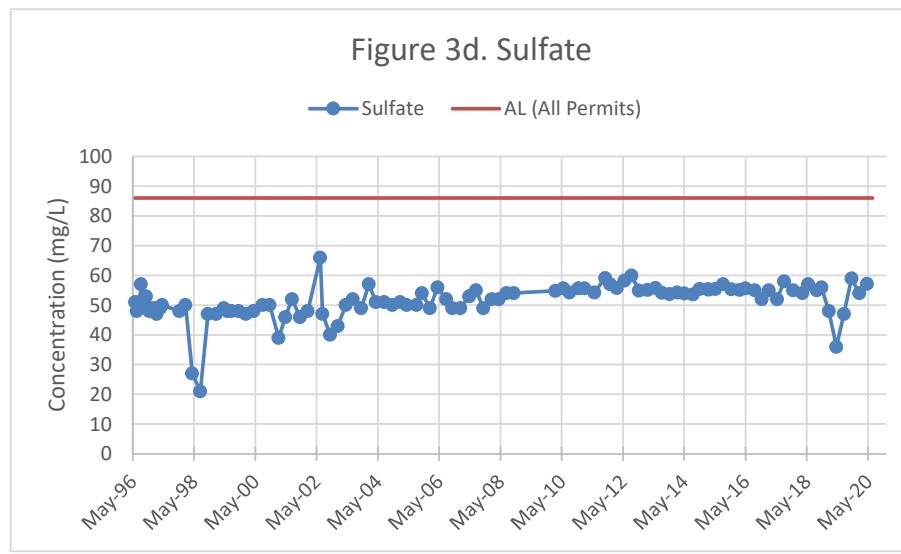
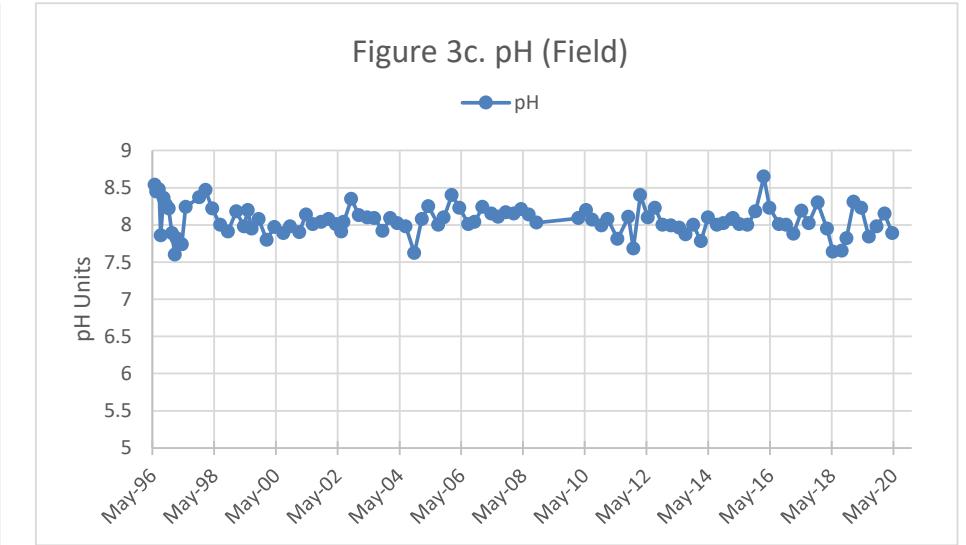
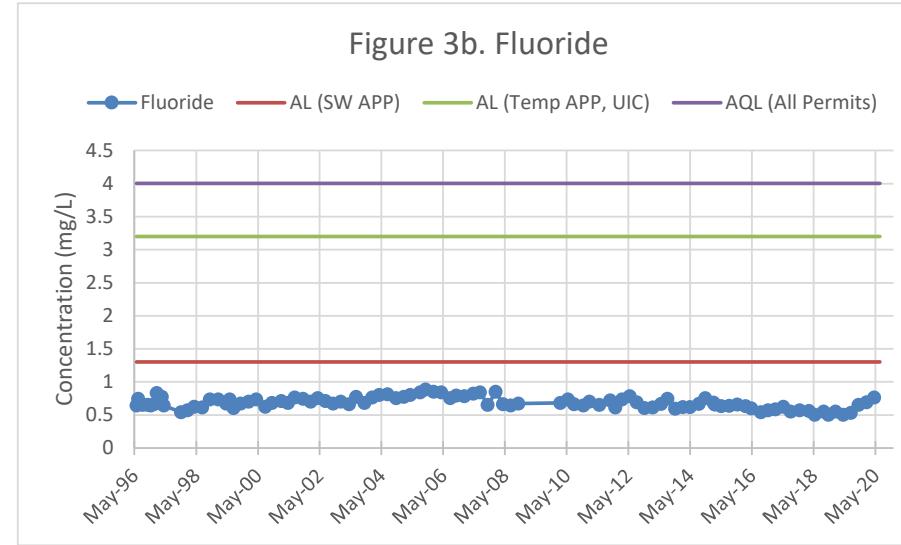
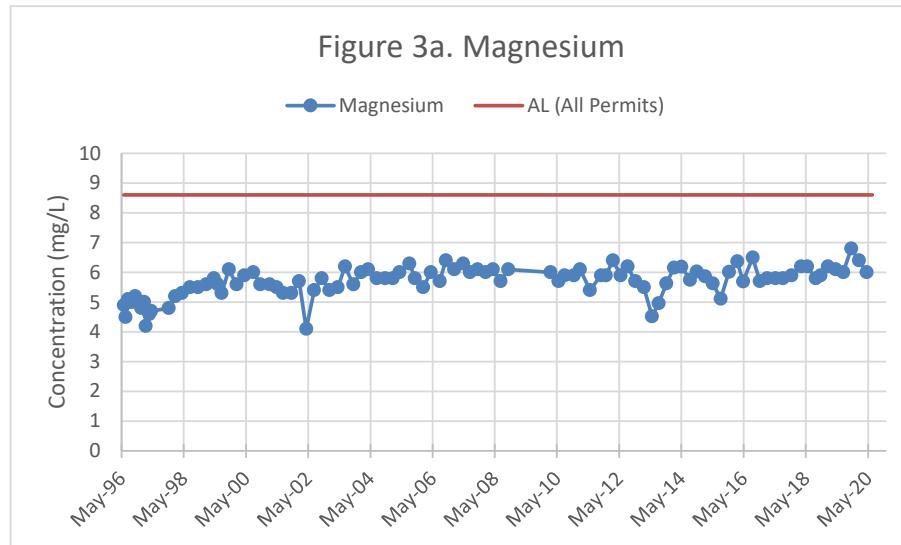
M15-GU QUARTERLY CONCENTRATION GRAPHS



Notes:

AL = Alert level
 APP = Aquifer Protection Permit
 AQL = Aquifer Quality Limit
 All Permits = SW APP, Temp APP, and UIC
 SW APP = Sitewide APP No. P-101704
 Temp APP = Temporary APP No P-106360
 UIC = Underground Injection Control
 UIC = UIC Permit No. R9UIC-AZ3-FY11-1

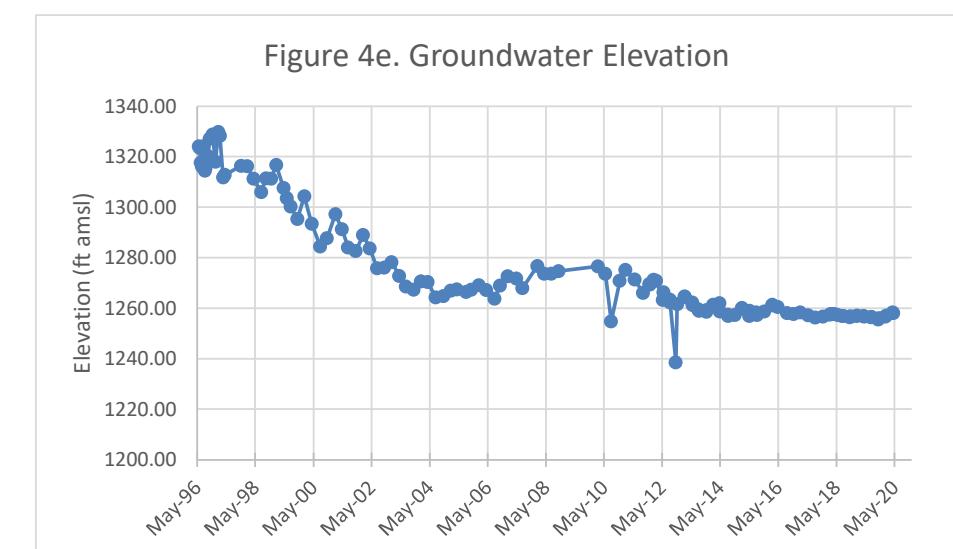
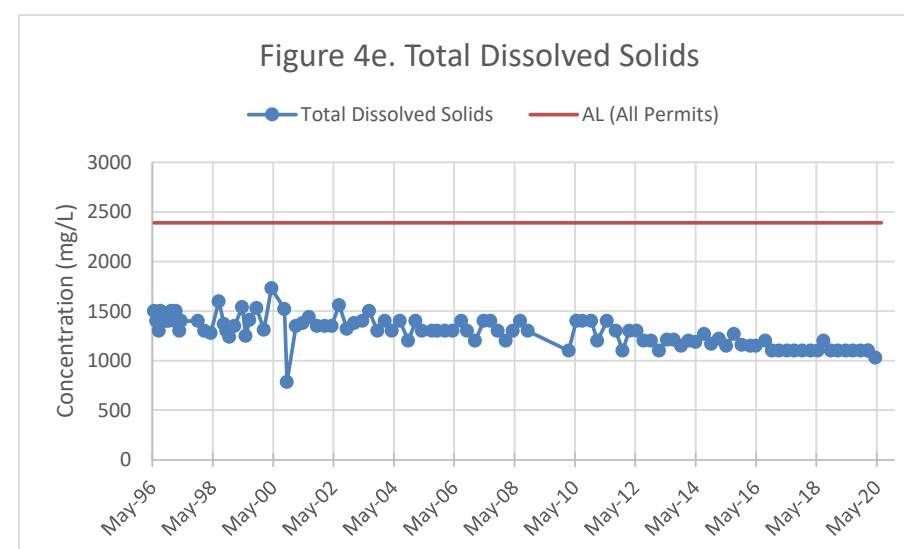
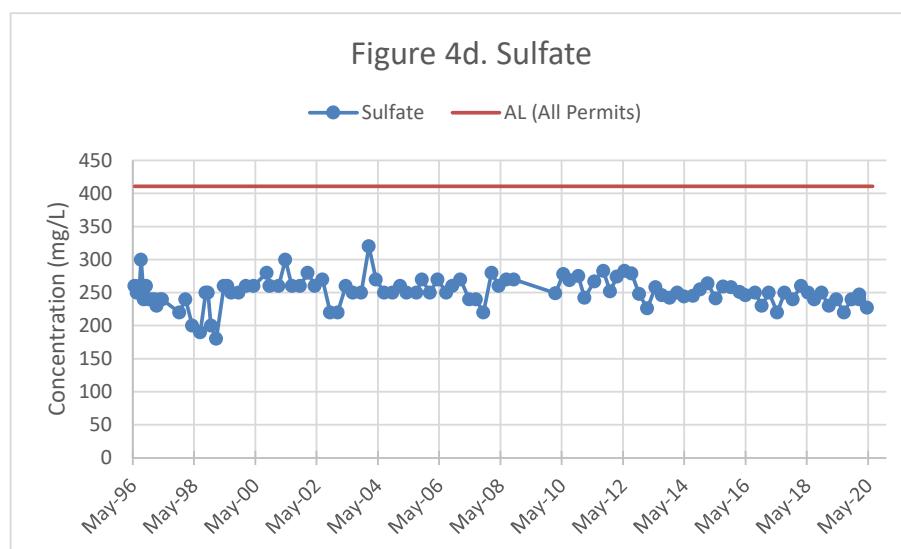
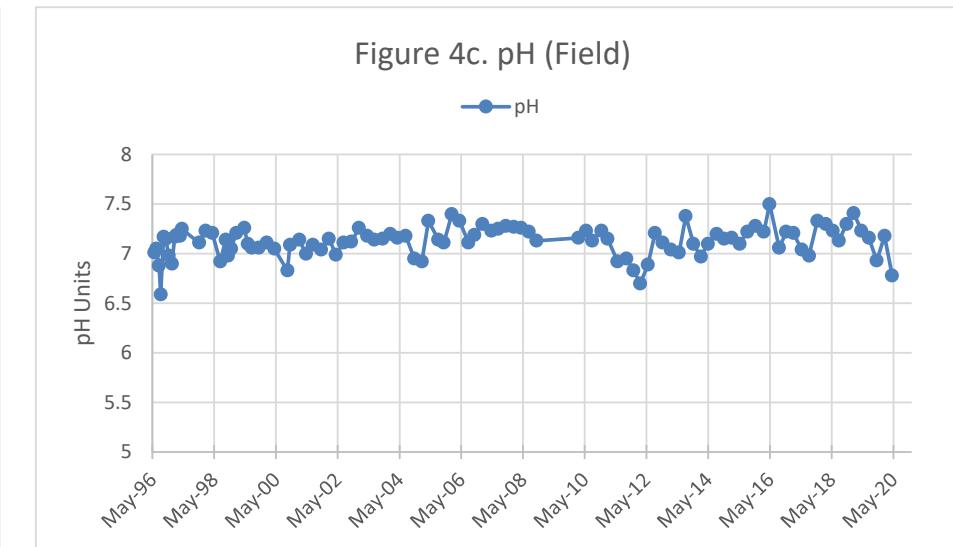
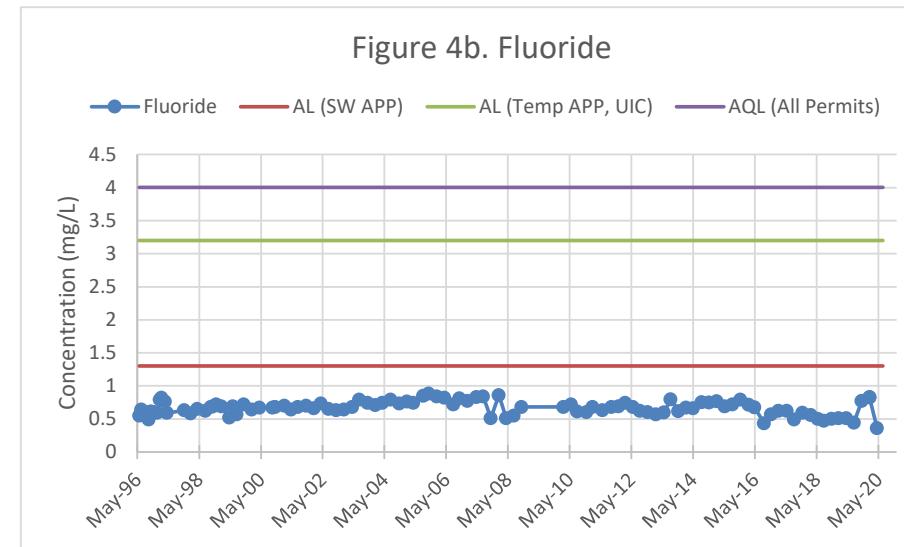
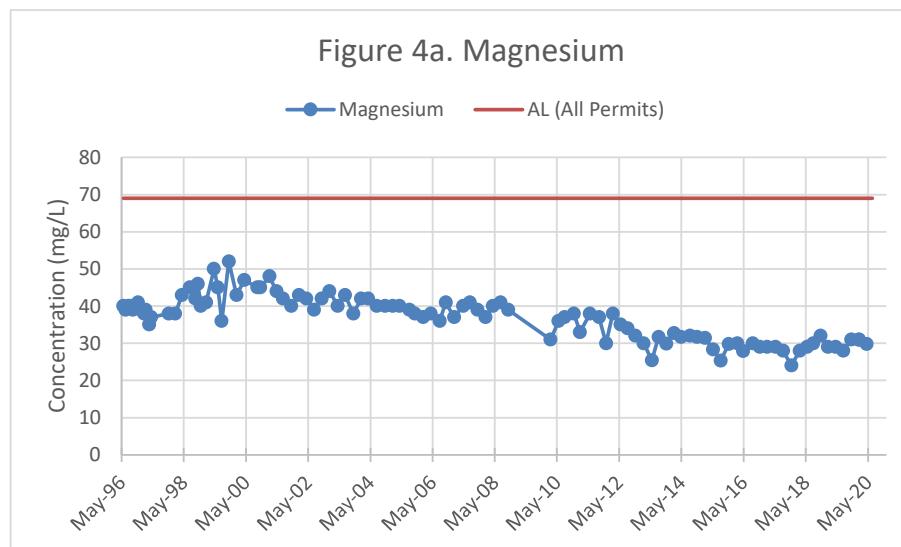
M22-O QUARTERLY CONCENTRATION GRAPHS



Notes:

AL = Alert level
 APP = Aquifer Protection Permit
 AQL = Aquifer Quality Limit
 All Permits = SW APP, Temp APP, and UIC
 SW APP = Sitewide APP No. P-101704
 Temp APP = Temporary APP No P-106360
 UIC = Underground Injection Control
 UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M23-UBF QUARTERLY CONCENTRATION GRAPHS



Notes:

AL = Alert level

APP = Aquifer Protection Permit

AQL = Aquifer Quality Limit

All Permits = SW APP, Temp APP, and UIC

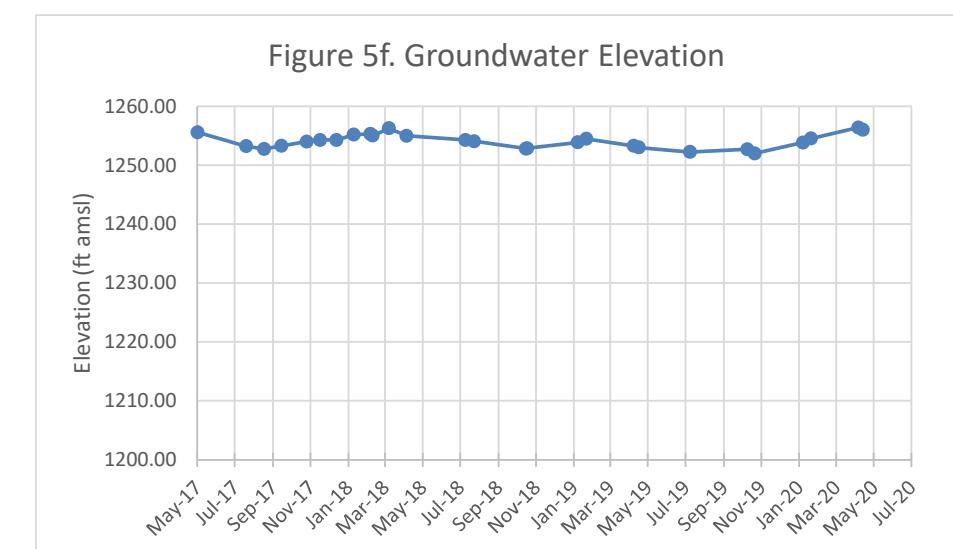
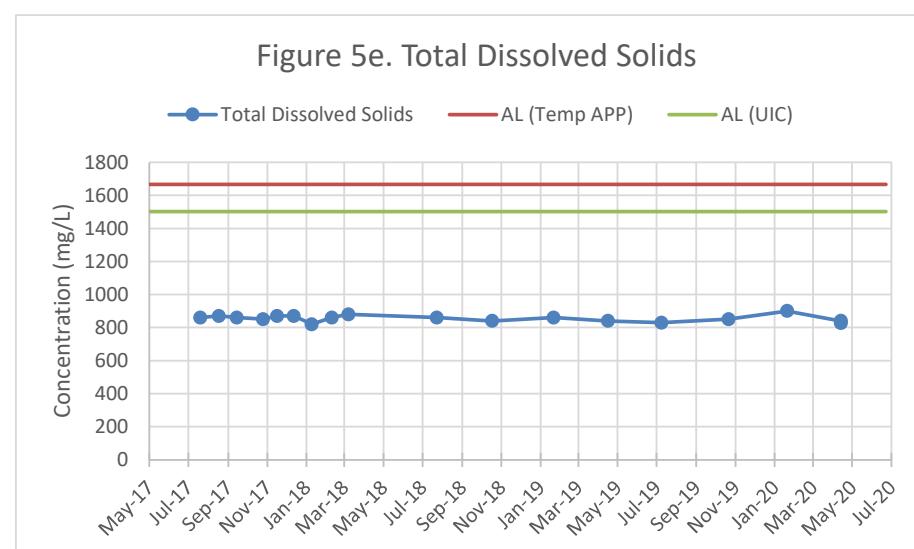
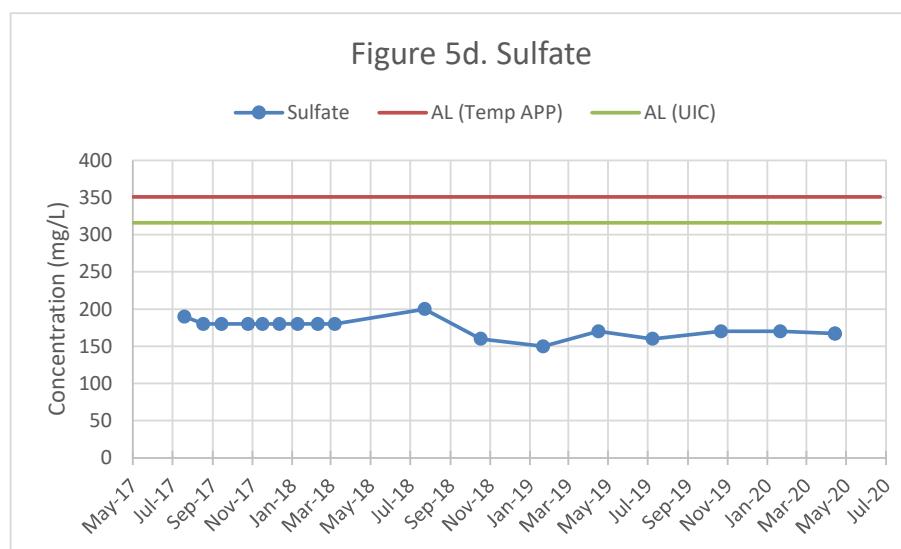
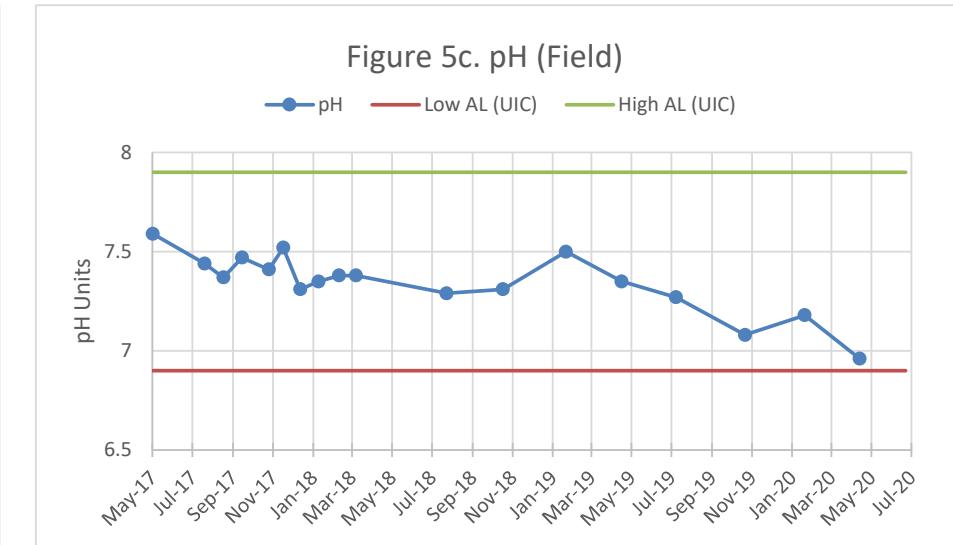
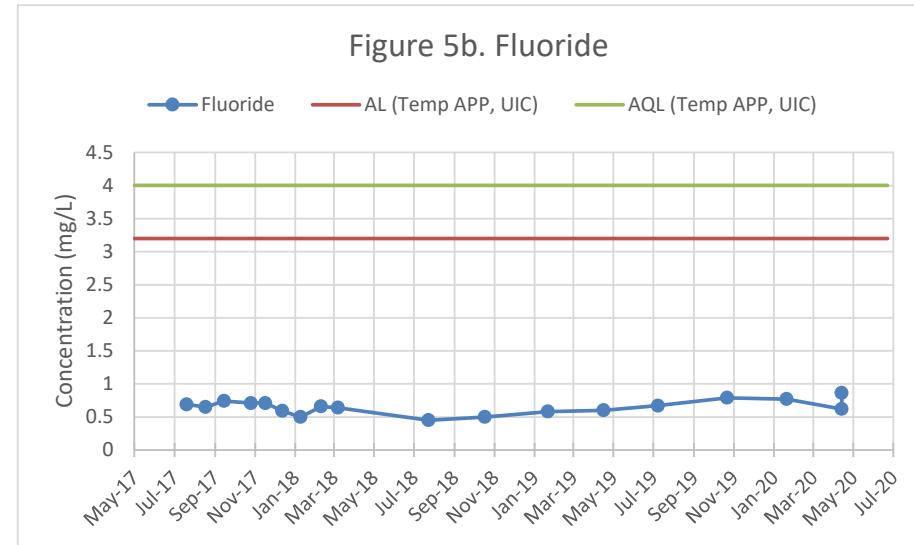
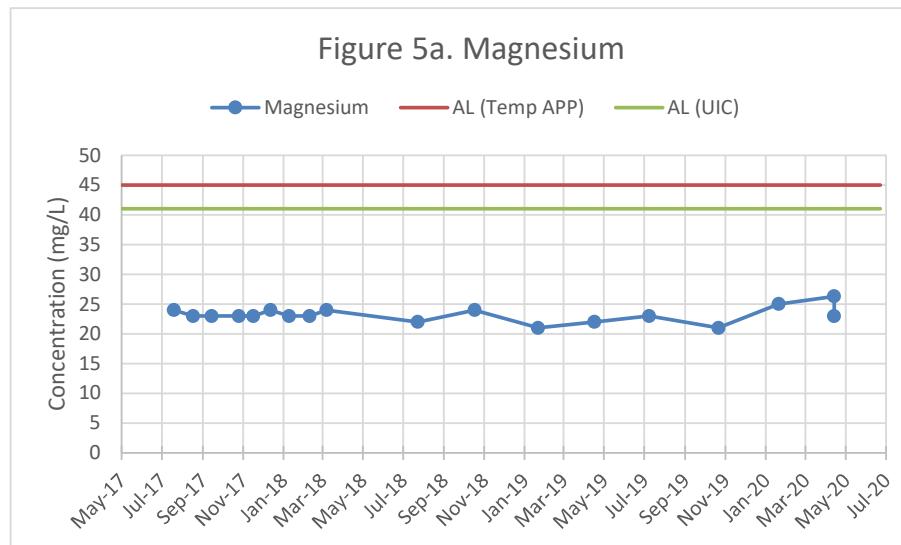
SW APP = Sitewide APP No. P-101704

Temp APP = Temporary APP No P-106360

UIC = Underground Injection Control

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M52-UBF QUARTERLY CONCENTRATION GRAPHS



Notes:

AL = Alert level

APP = Aquifer Protection Permit

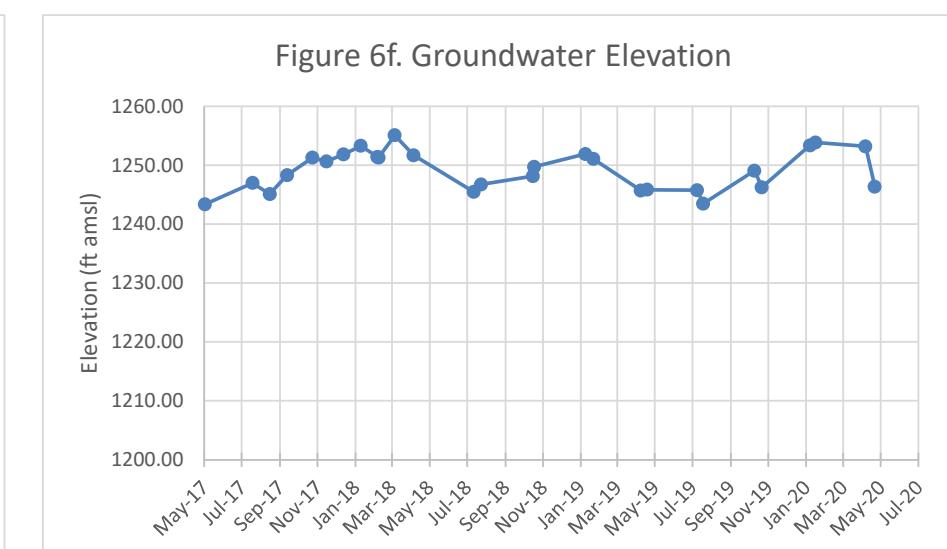
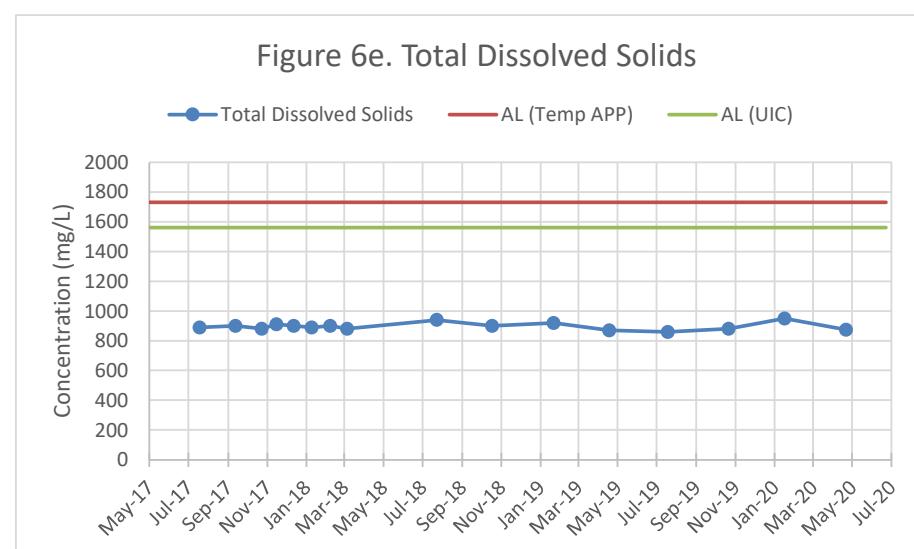
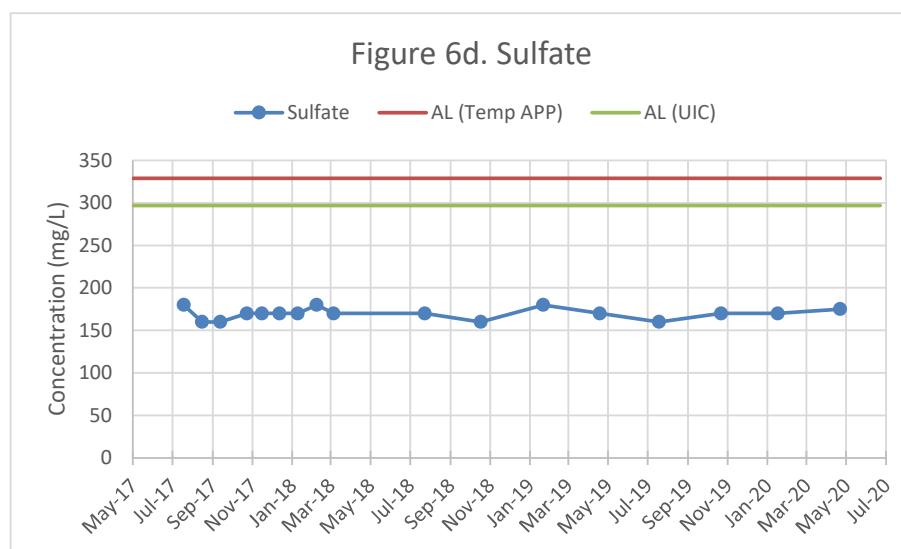
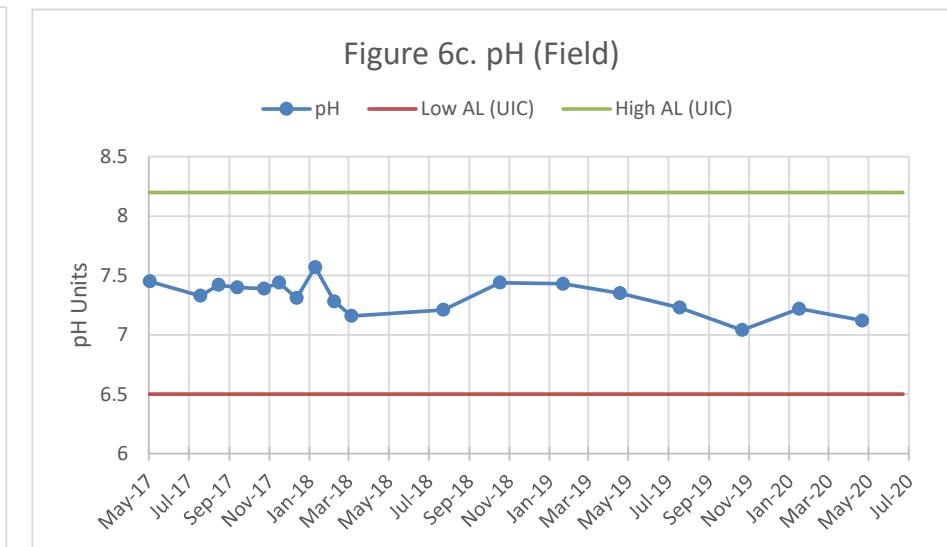
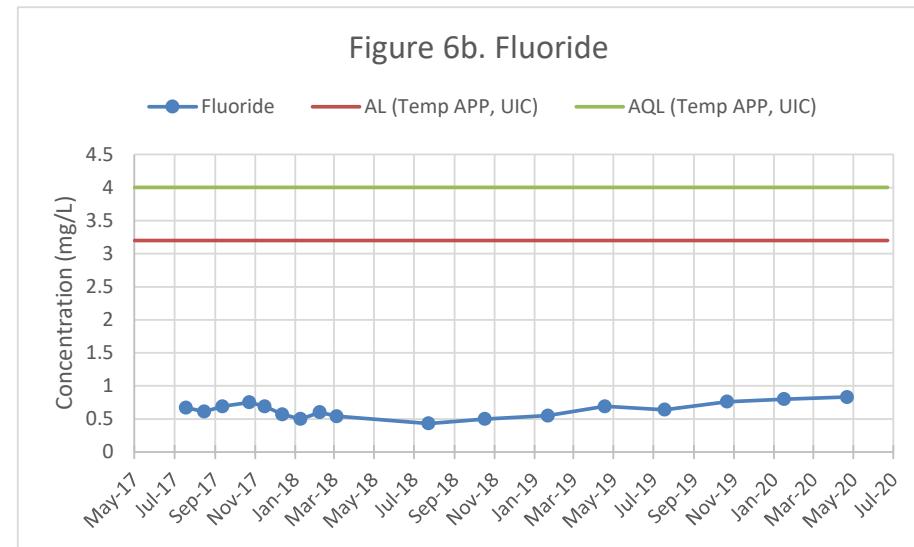
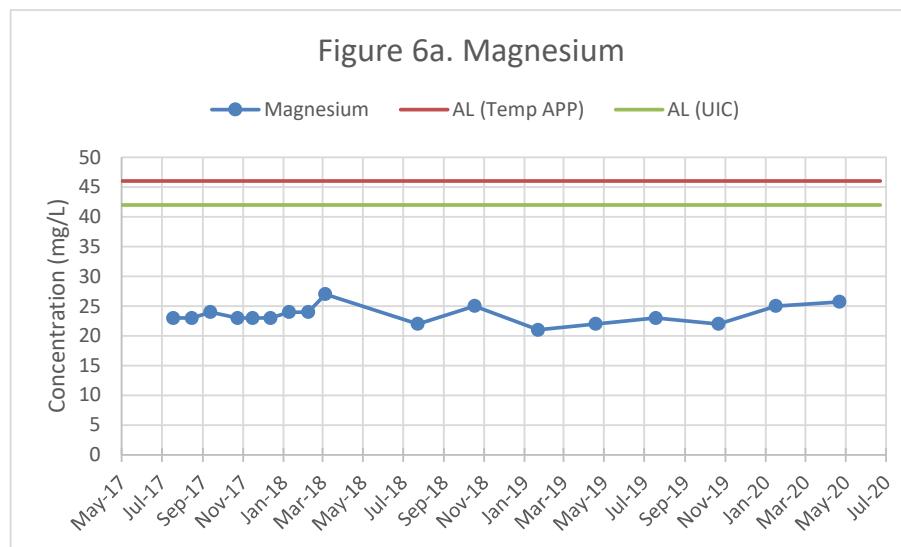
AQL = Aquifer Quality Limit

Temp APP = Temporary APP No P-106360

UIC = Underground Injection Control

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M54-LBF QUARTERLY CONCENTRATION GRAPHS



Notes:

Historical outliers removed from graphs for visual representation, but are maintained in the dataset.

AL = Alert level

APP = Aquifer Protection Permit

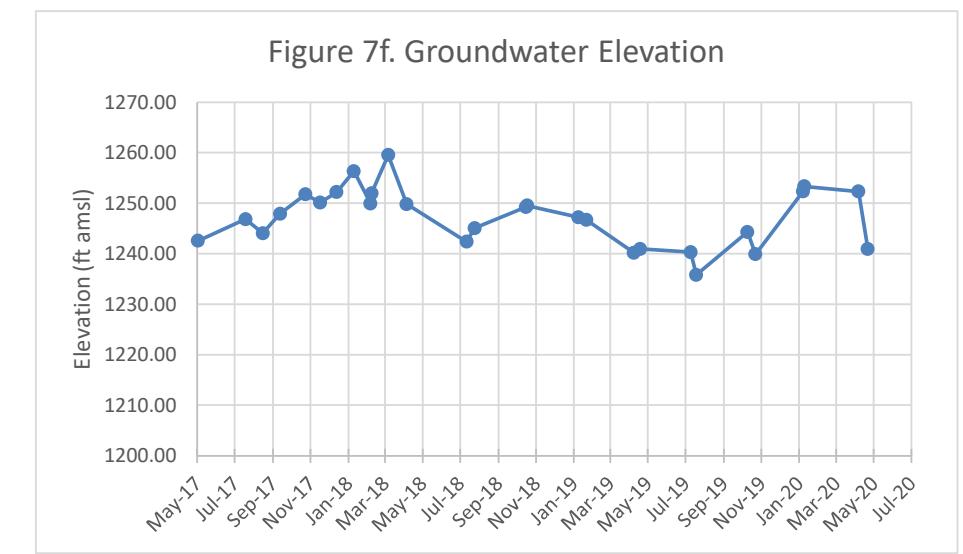
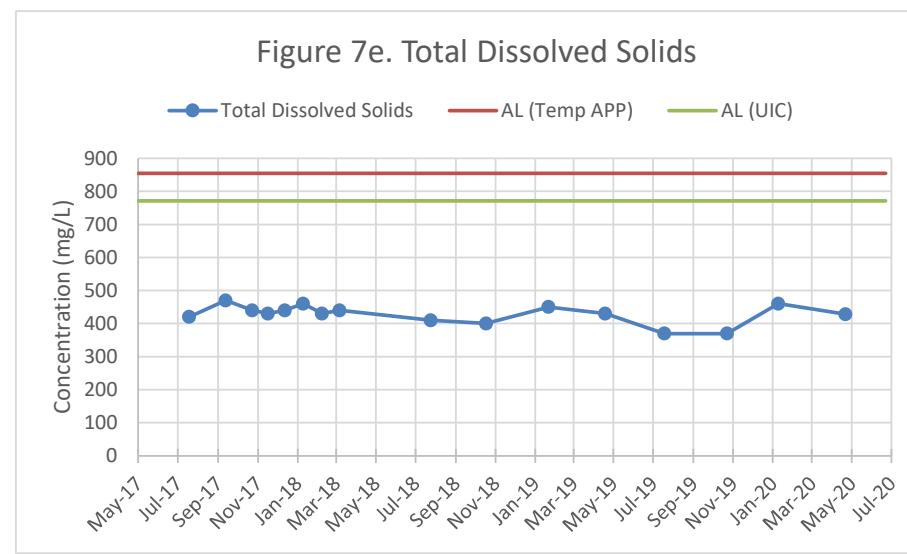
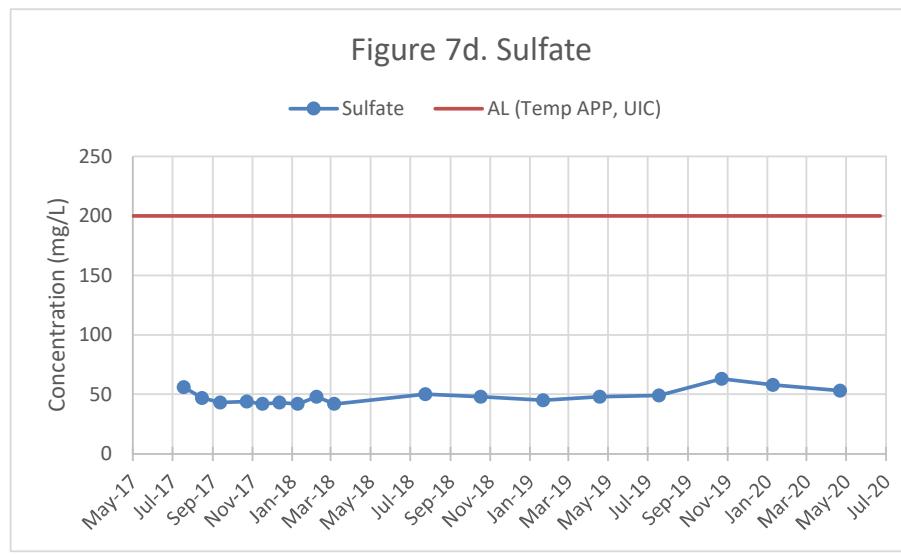
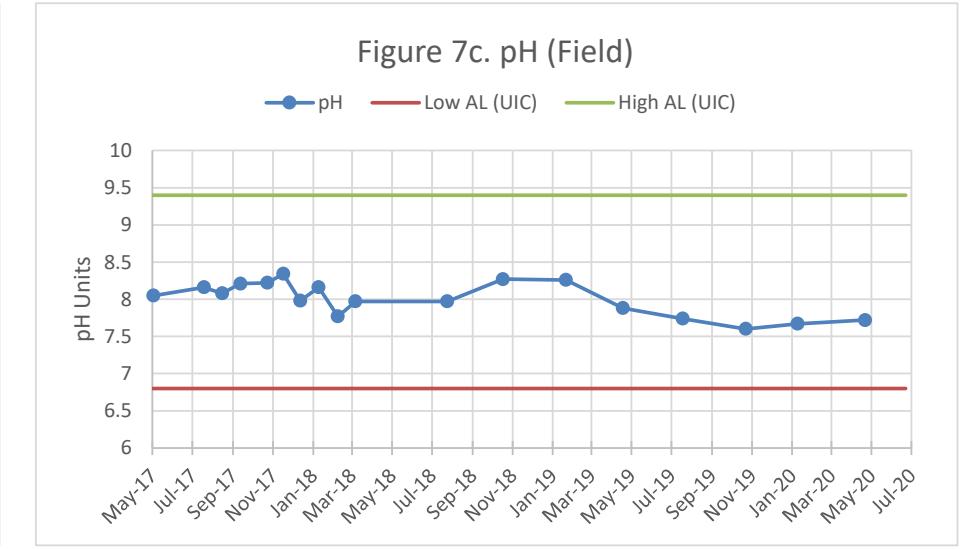
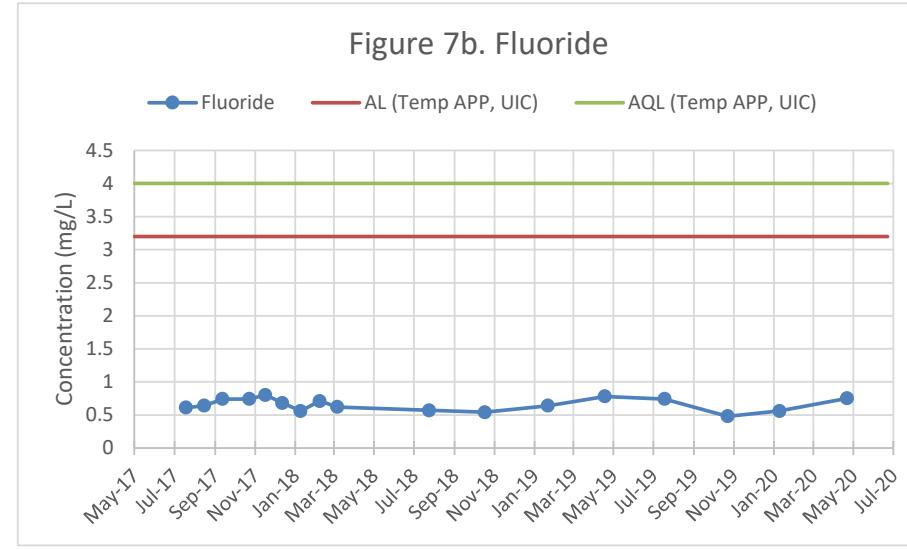
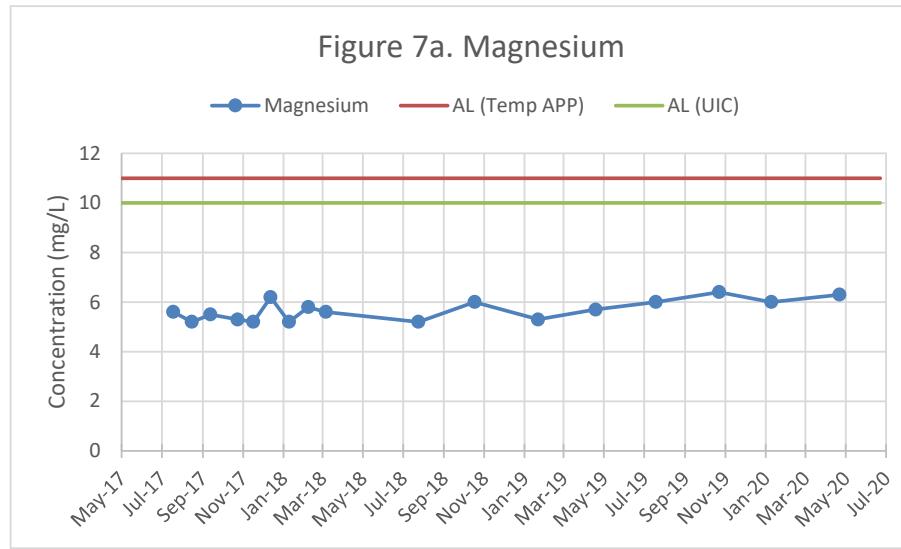
AQL = Aquifer Quality Limit

Temp APP = Temporary APP No P-106360

UIC = Underground Injection Control

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M54-O QUARTERLY CONCENTRATION GRAPHS



Notes:

AL = Alert level

APP = Aquifer Protection Permit

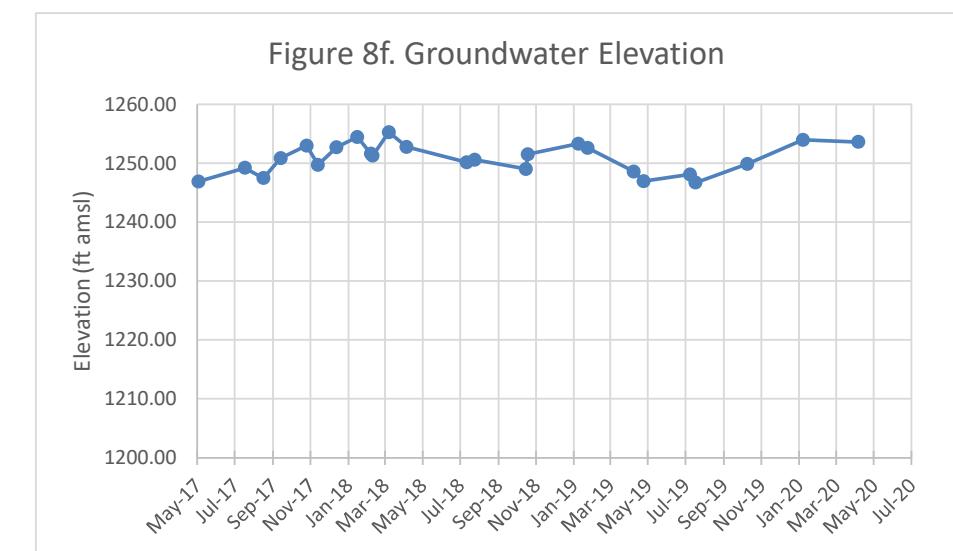
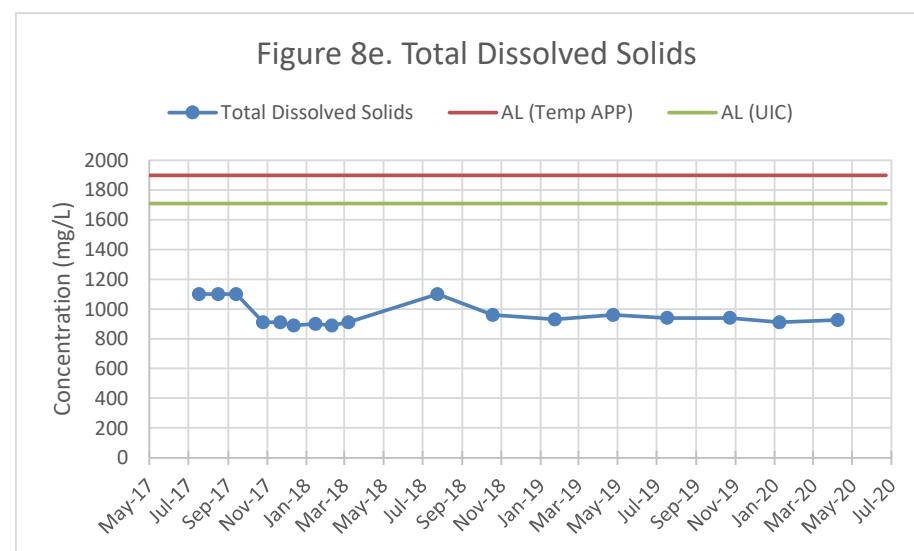
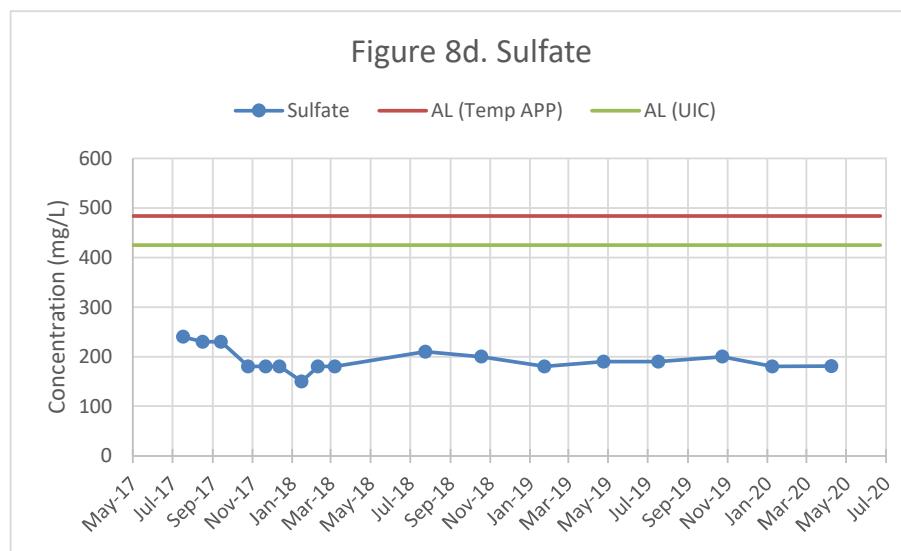
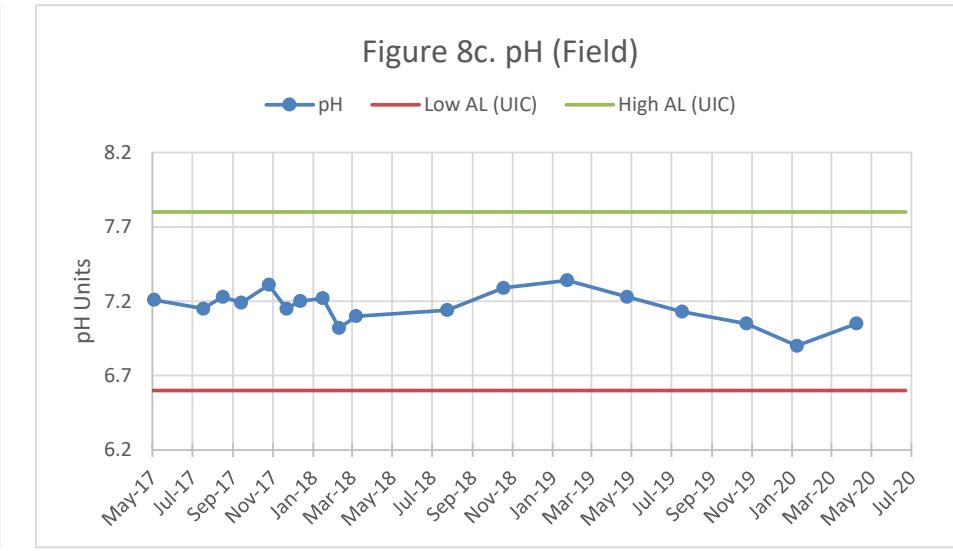
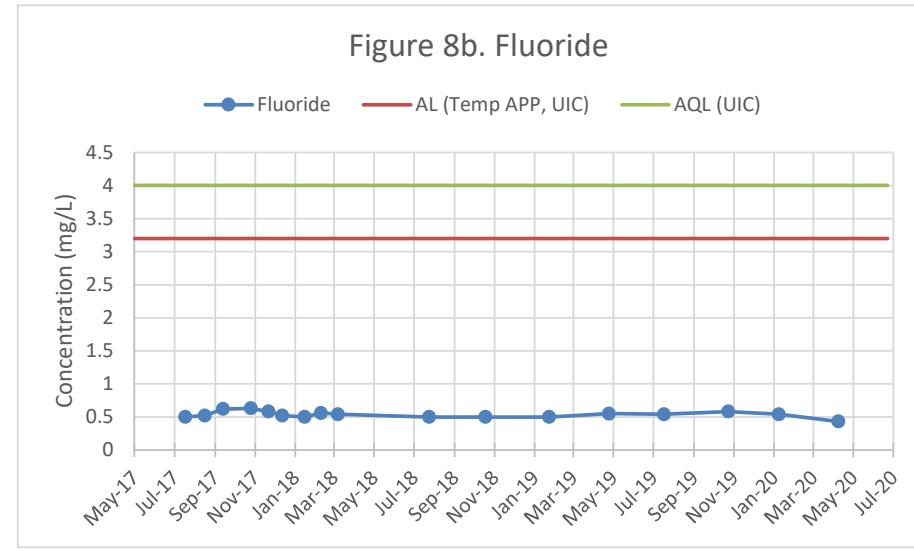
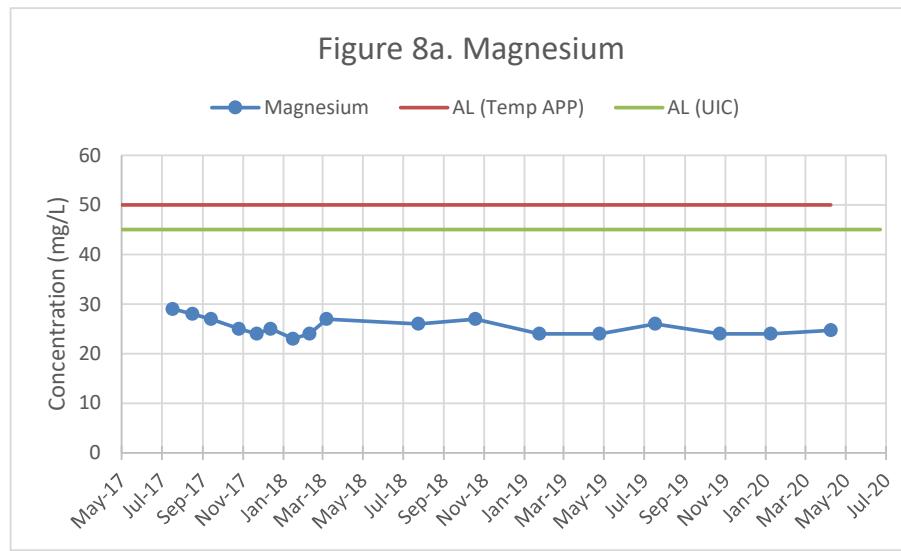
AQL = Aquifer Quality Limit

Temp APP = Temporary APP No P-106360

UIC = Underground Injection Control

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

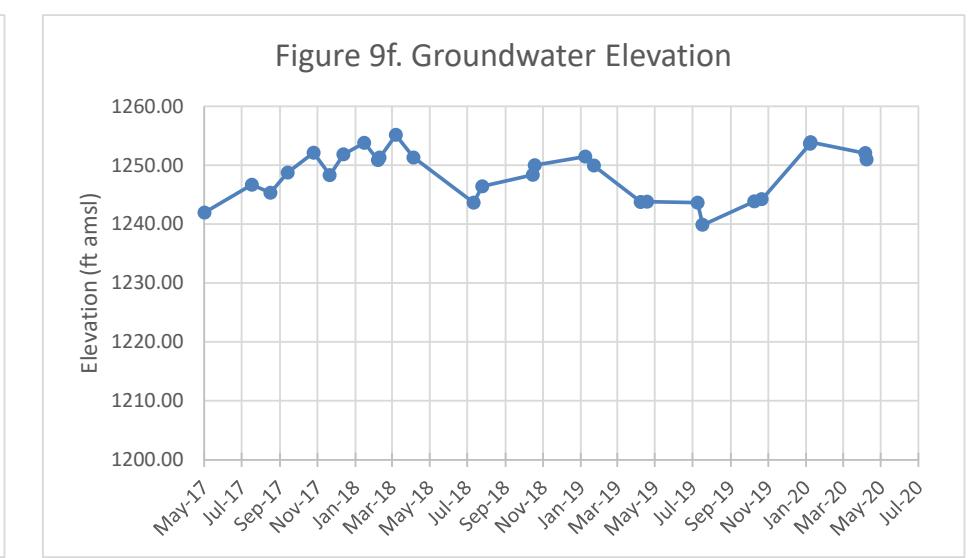
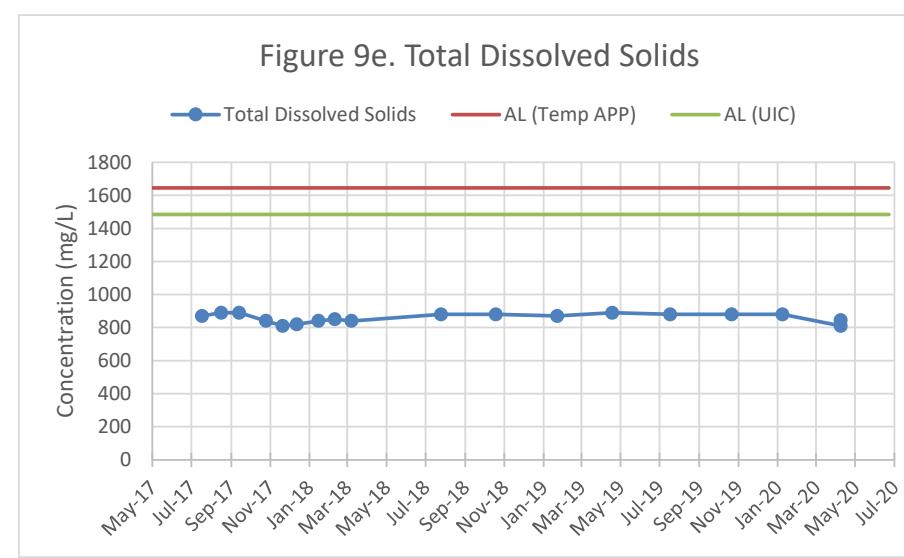
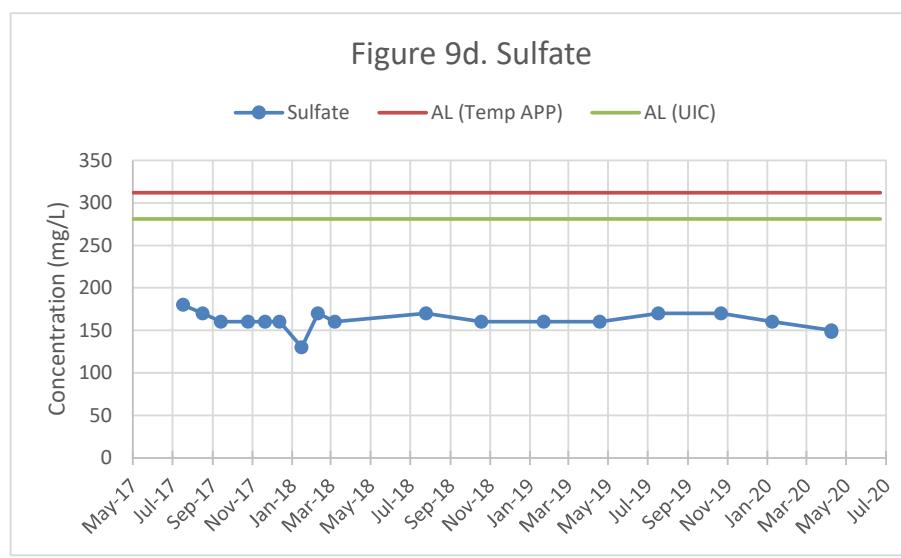
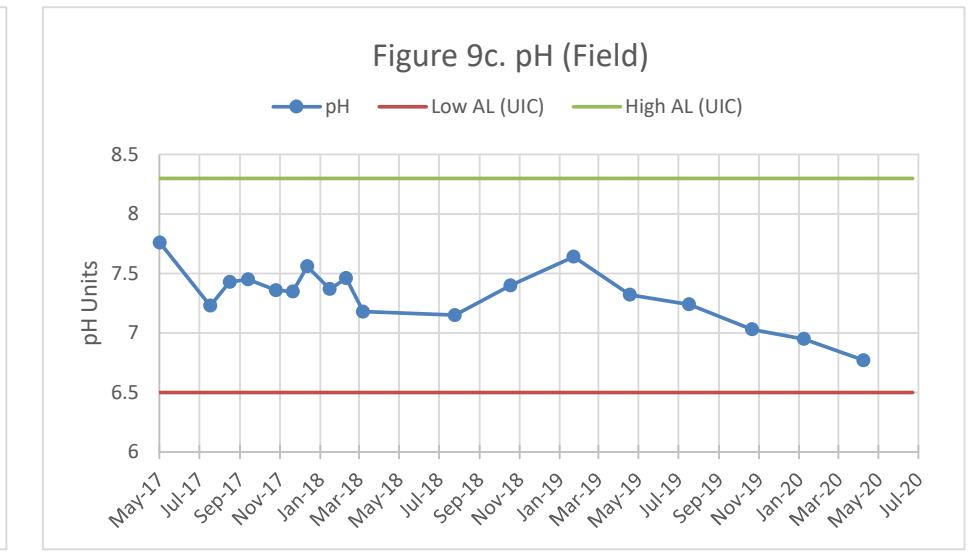
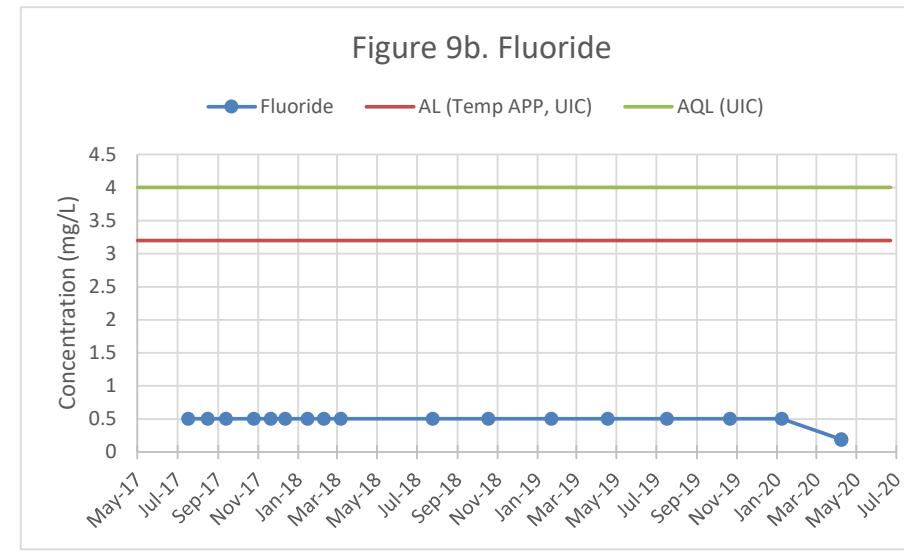
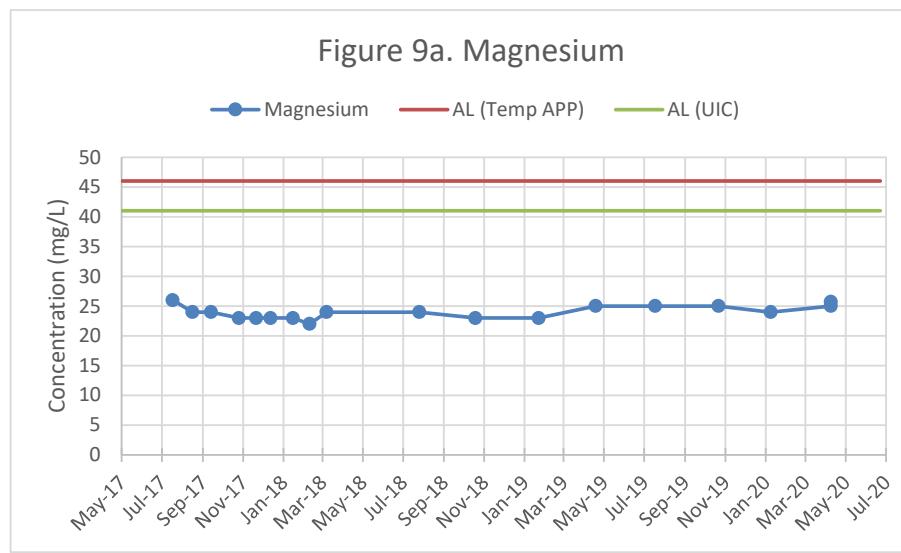
M55-UBF QUARTERLY CONCENTRATION GRAPHS



Notes:

AL = Alert level
 APP = Aquifer Protection Permit
 AQL = Aquifer Quality Limit
 Temp APP = Temporary APP No P-106360
 UIC = Underground Injection Control
 UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M56-LBF QUARTERLY CONCENTRATION GRAPHS



Notes:

AL = Alert level

APP = Aquifer Protection Permit

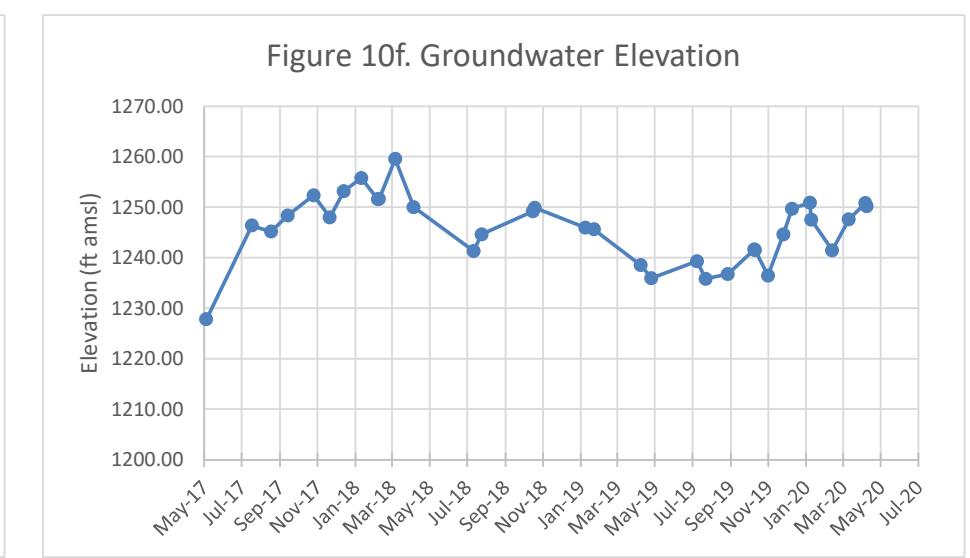
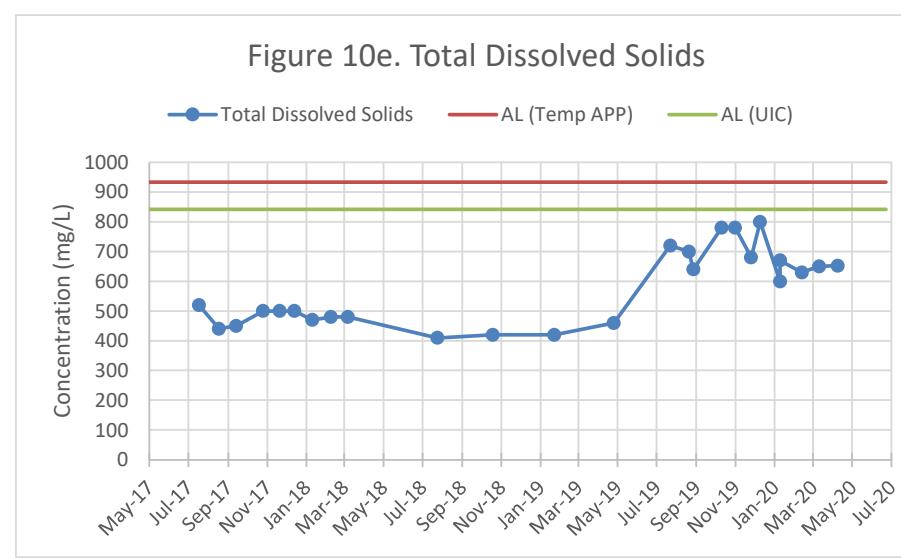
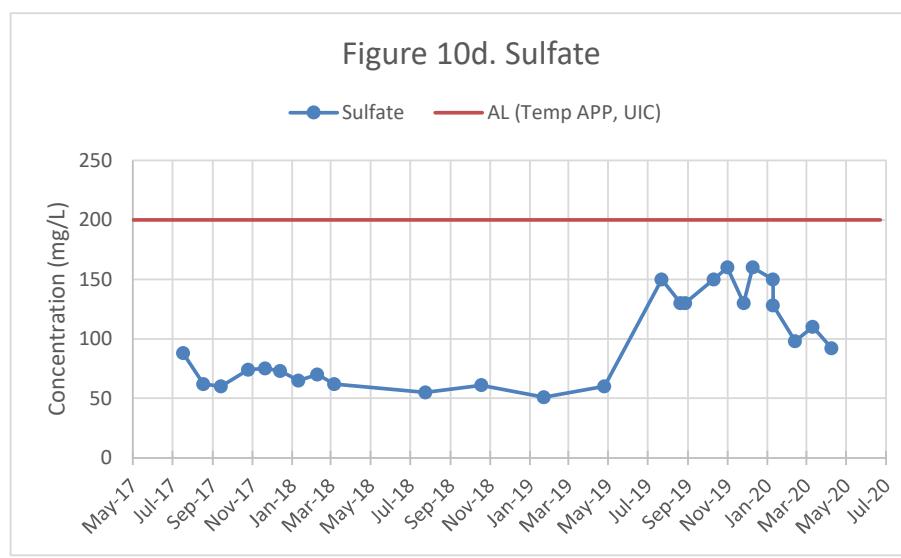
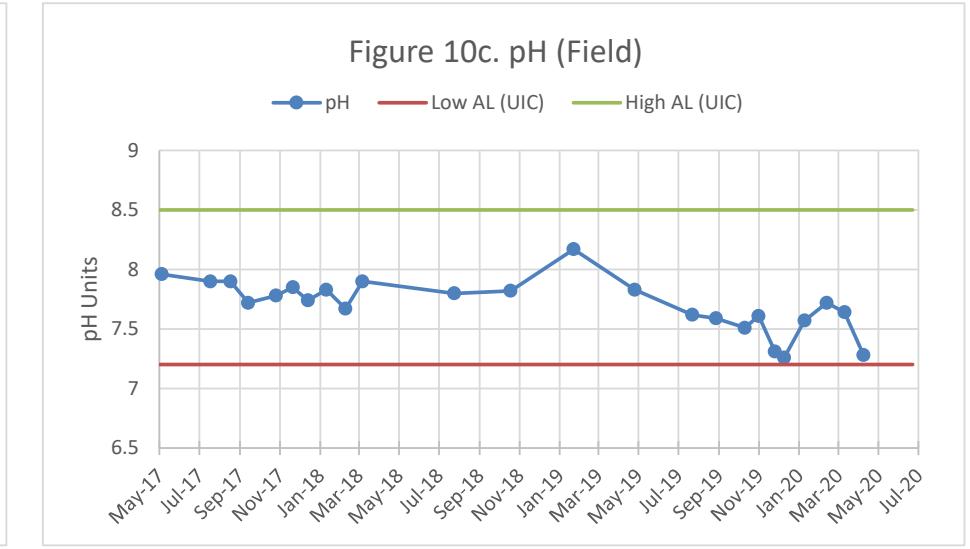
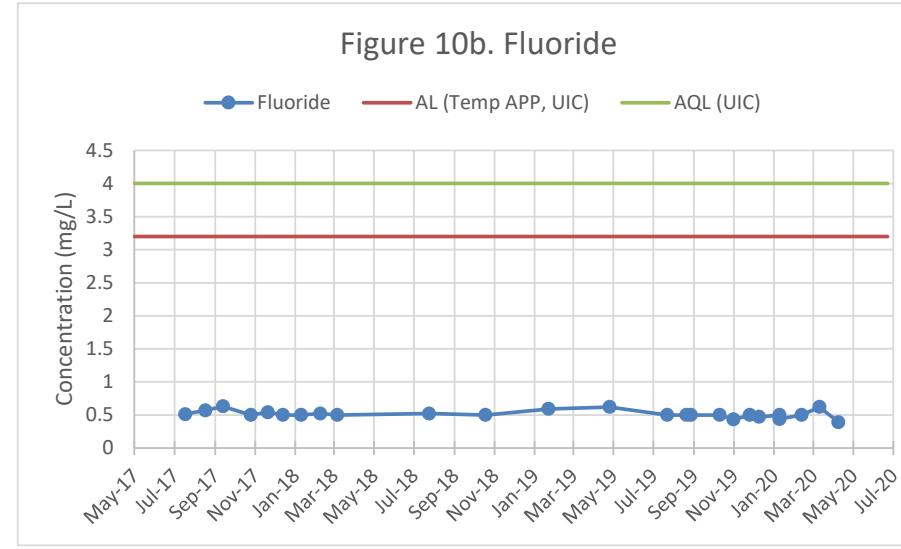
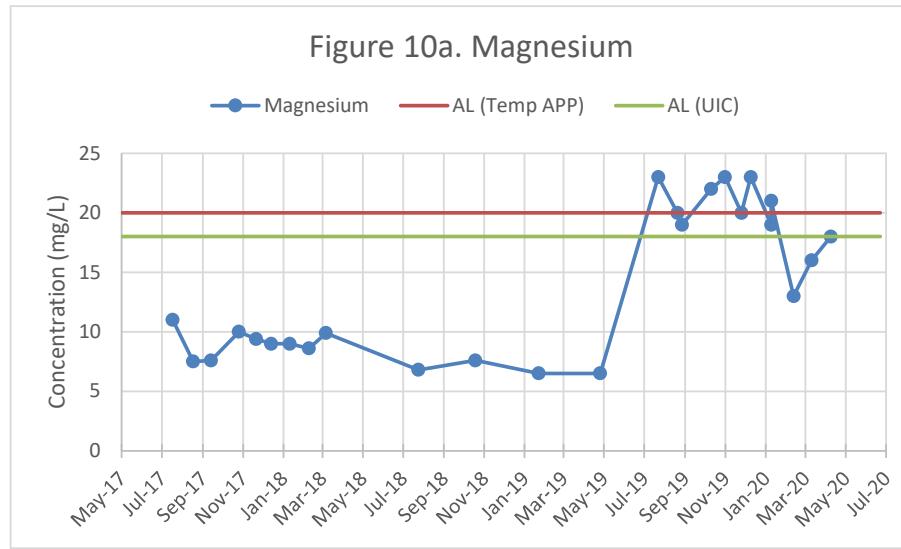
AQL = Aquifer Quality Limit

Temp APP = Temporary APP No P-106360

UIC = Underground Injection Control

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M57-O QUARTERLY CONCENTRATION GRAPHS



Notes:

AL = Alert level

APP = Aquifer Protection Permit

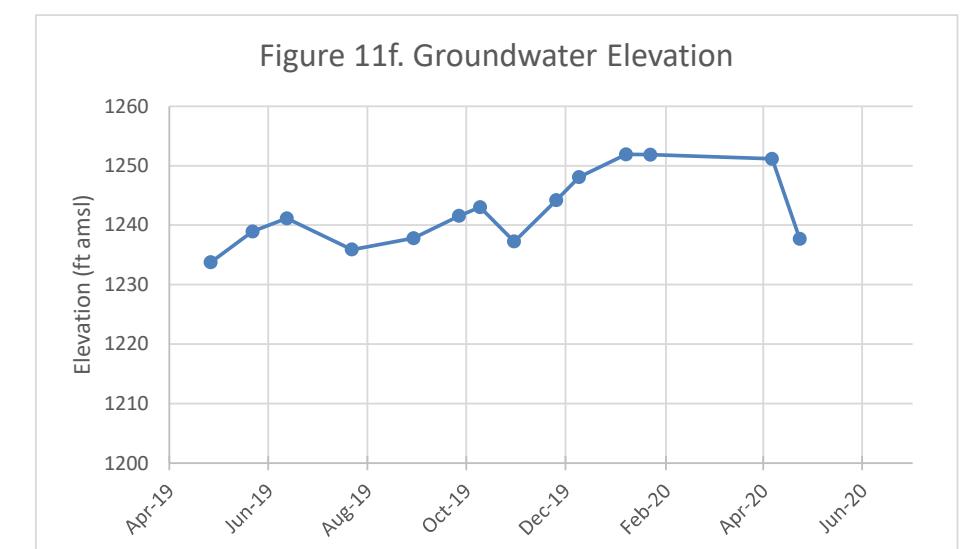
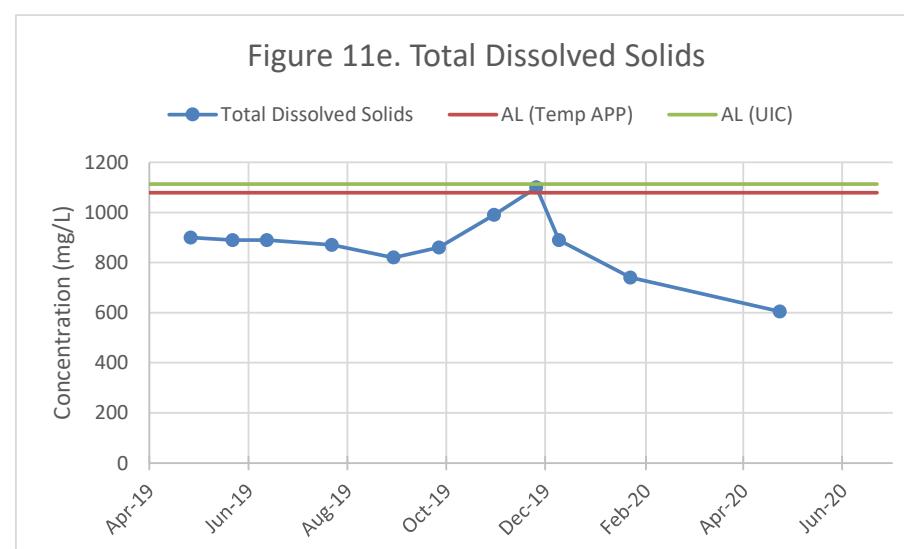
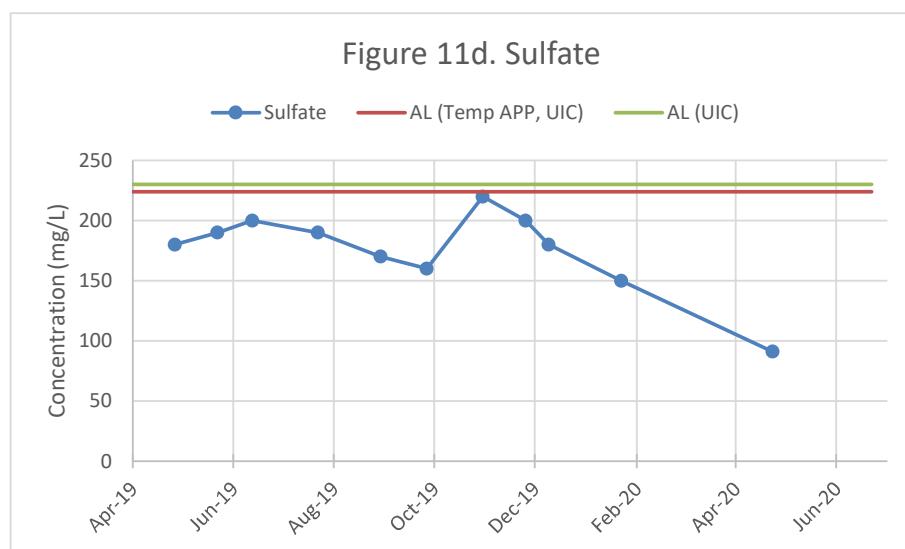
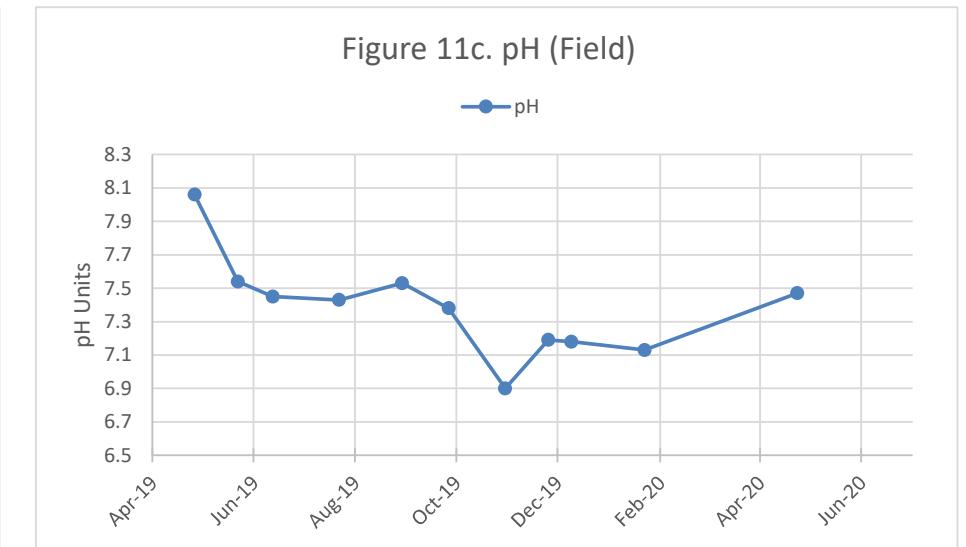
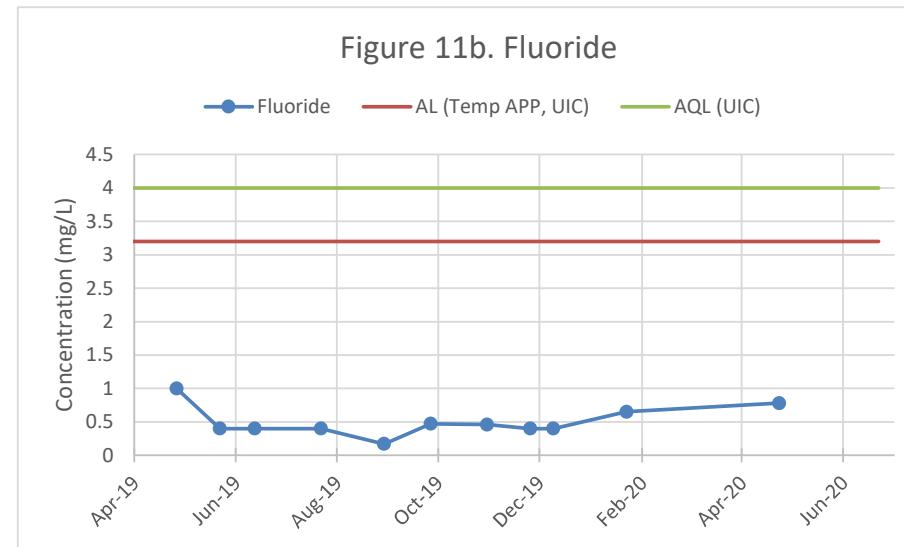
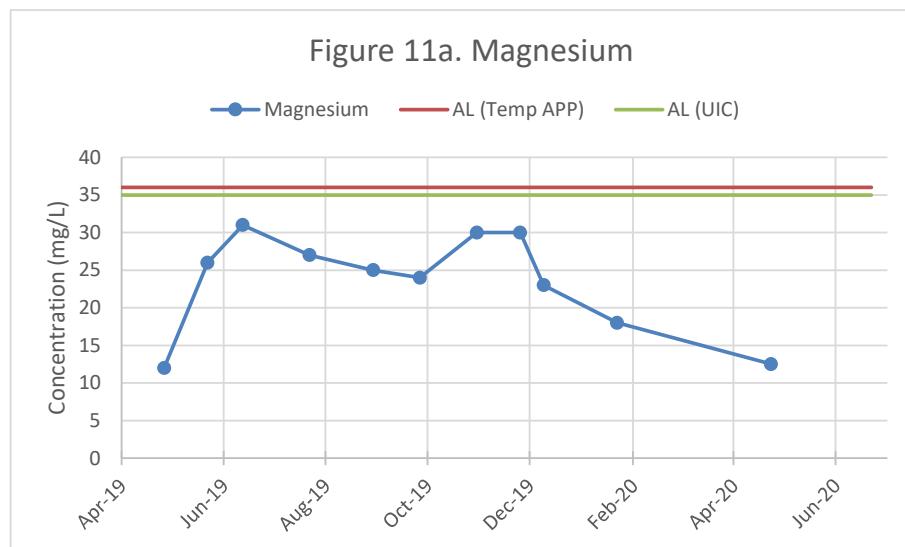
AQL = Aquifer Quality Limit

Temp APP = Temporary APP No P-106360

UIC = Underground Injection Control

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

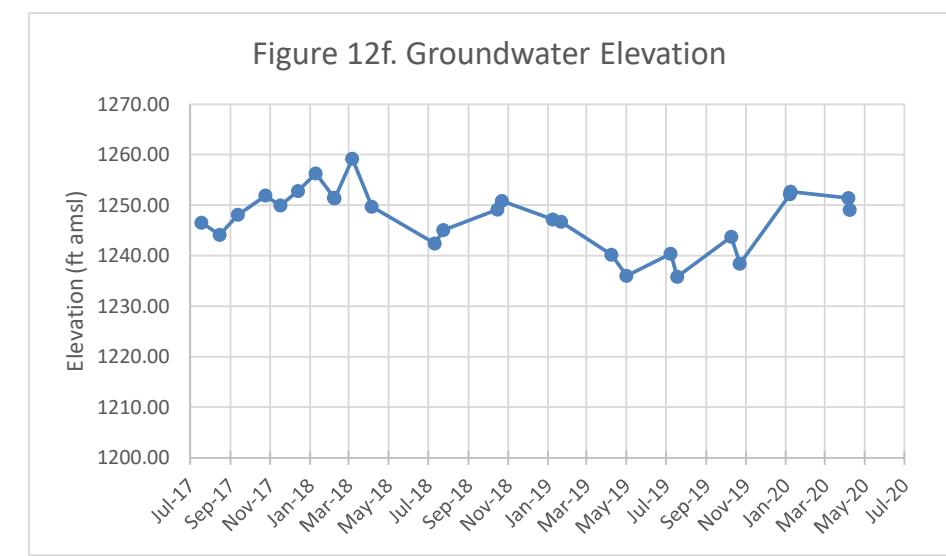
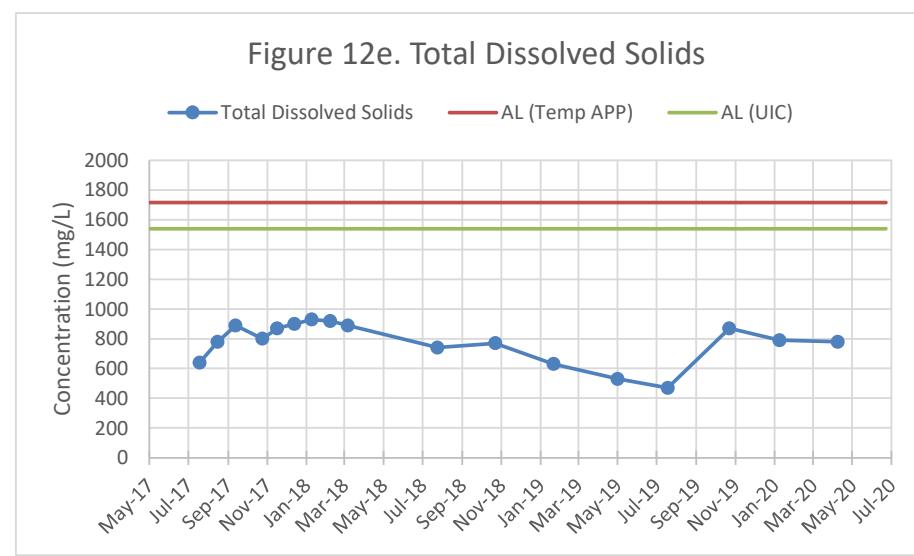
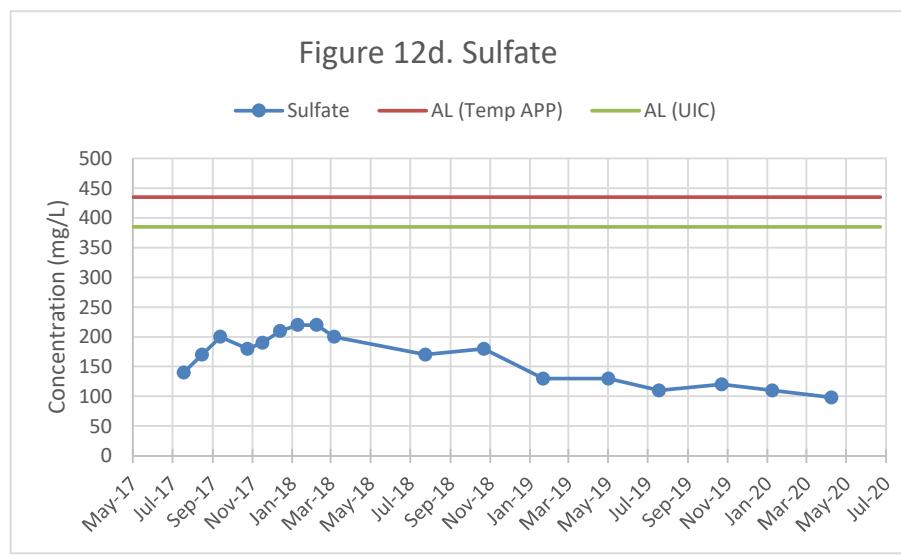
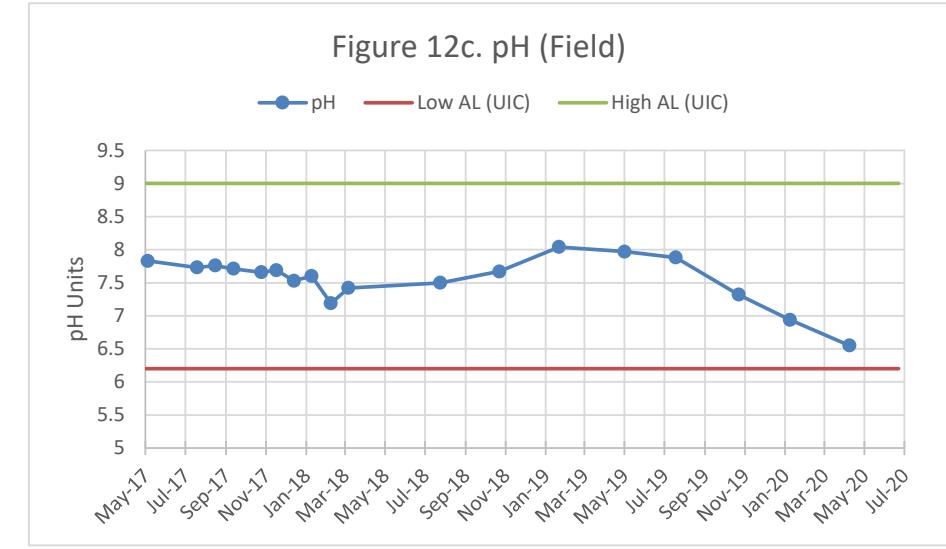
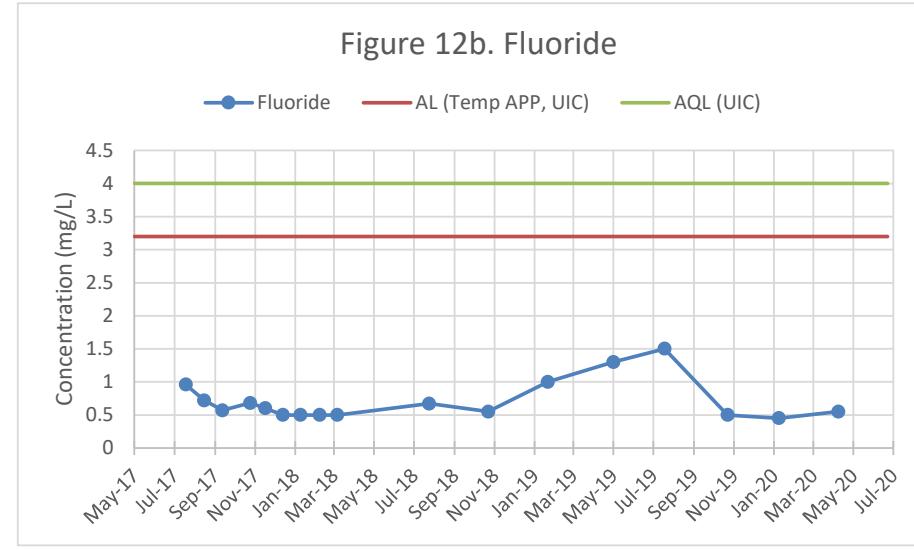
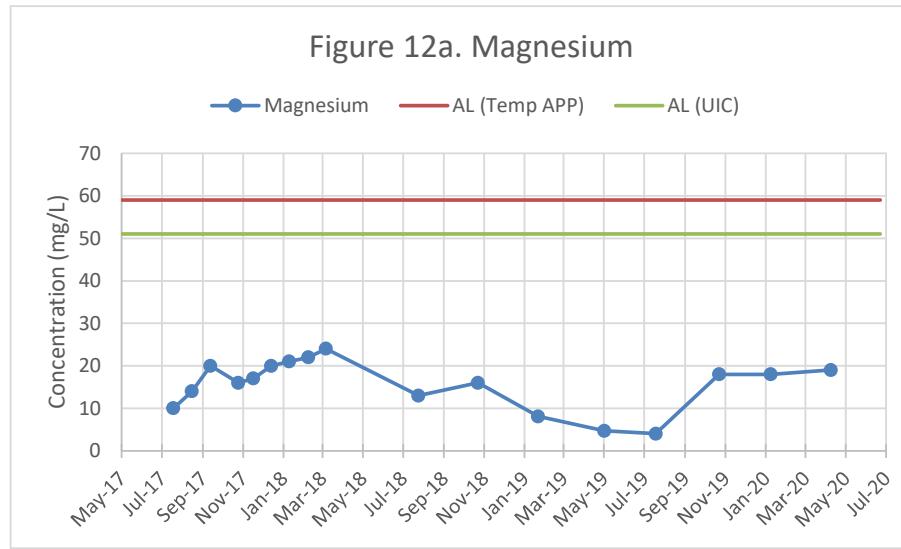
M57R-O QUARTERLY CONCENTRATION GRAPHS



Notes:

AL = Alert level
 APP = Aquifer Protection Permit
 AQL = Aquifer Quality Limit
 Temp APP = Temporary APP No P-106360
 UIC = Underground Injection Control
 UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M58-O QUARTERLY CONCENTRATION GRAPHS



Notes:

AL = Alert level

APP = Aquifer Protection Permit

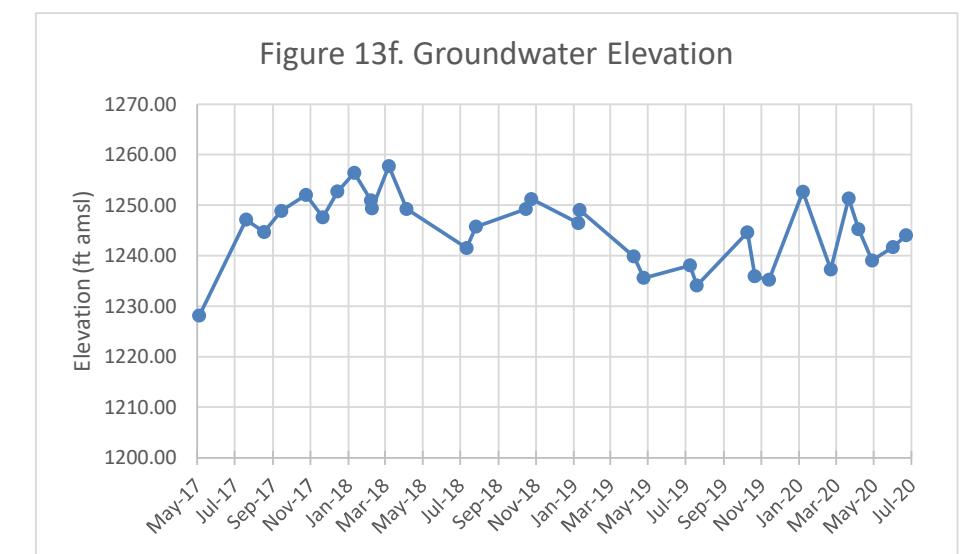
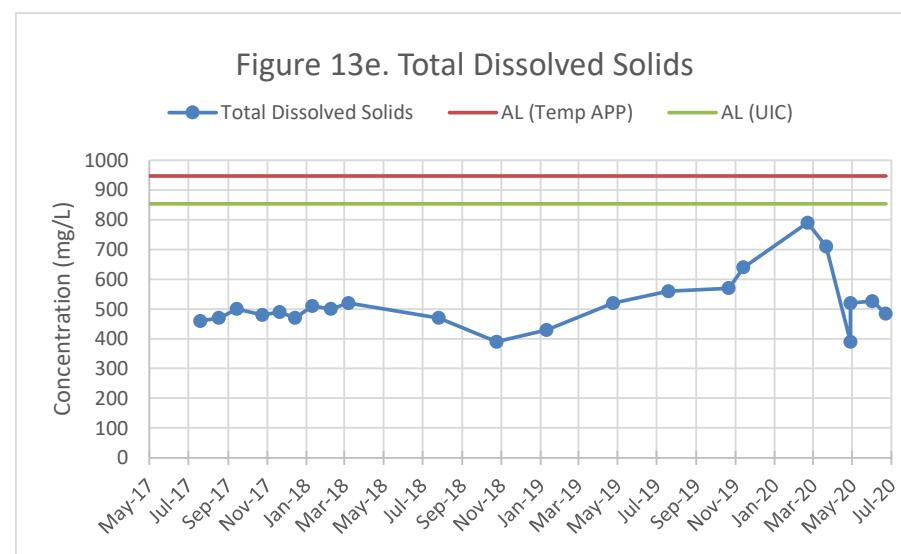
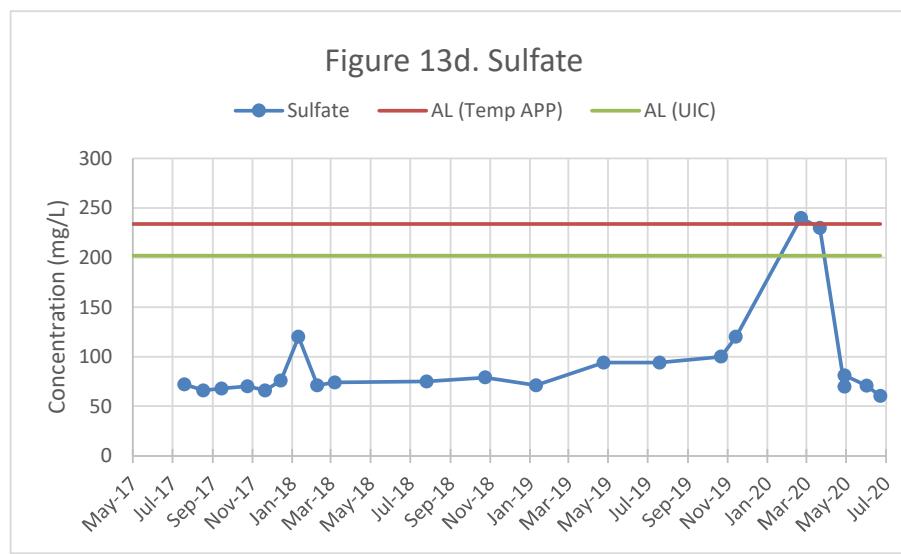
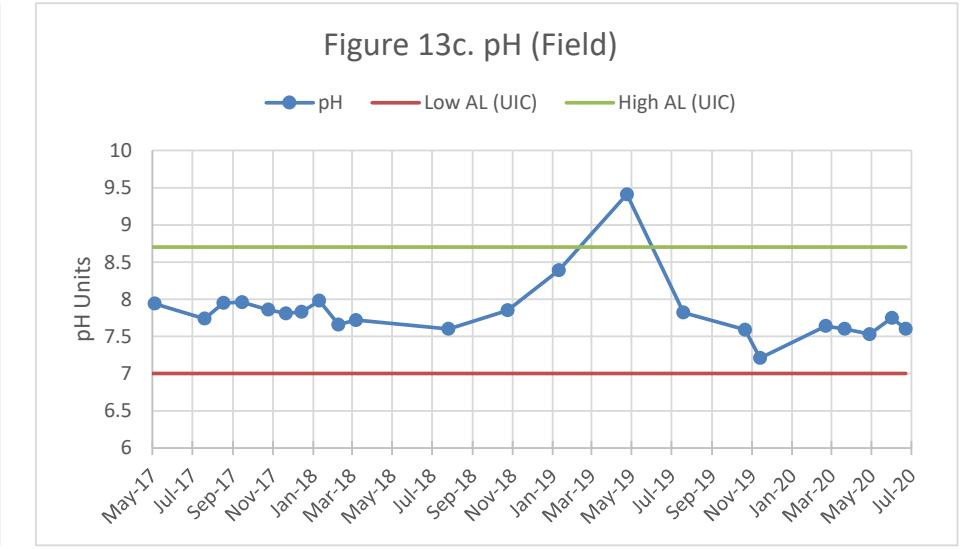
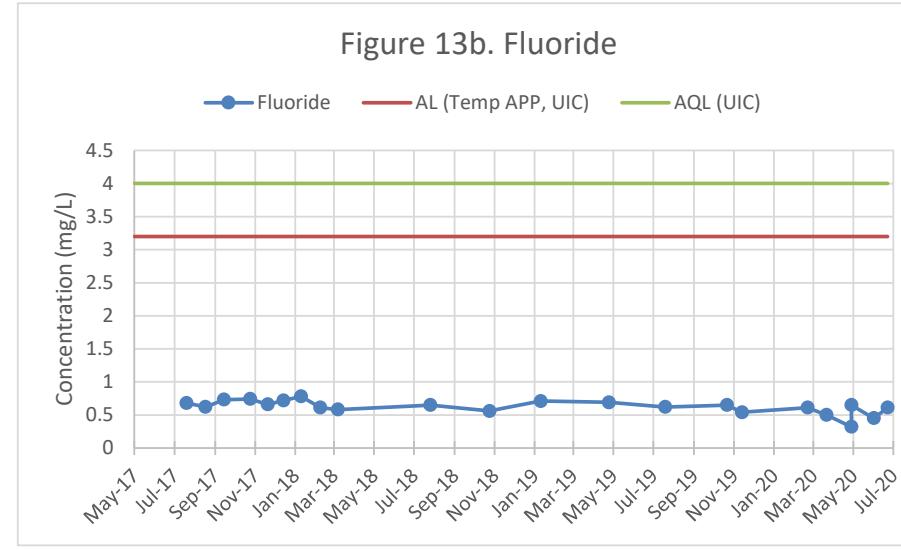
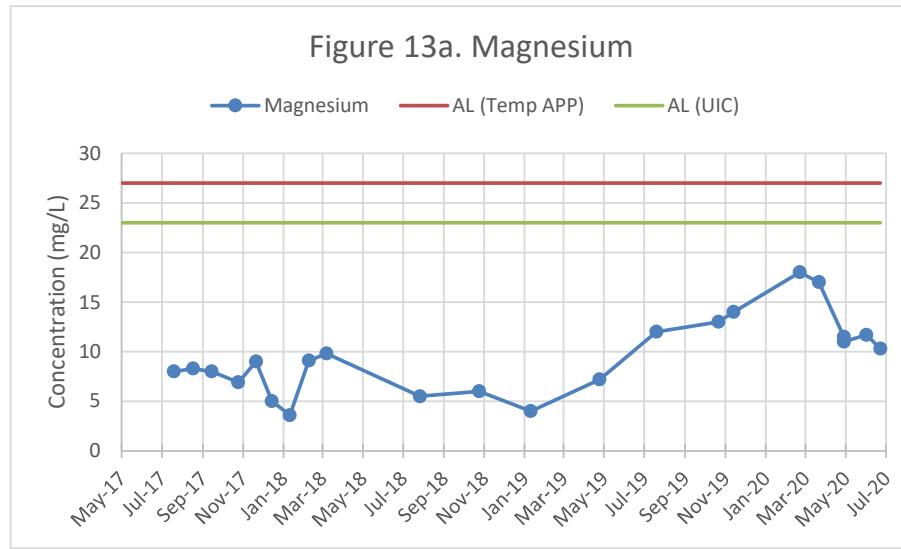
AQL = Aquifer Quality Limit

Temp APP = Temporary APP No P-106360

UIC = Underground Injection Control

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M59-O QUARTERLY CONCENTRATION GRAPHS



Notes:

AL = Alert level

APP = Aquifer Protection Permit

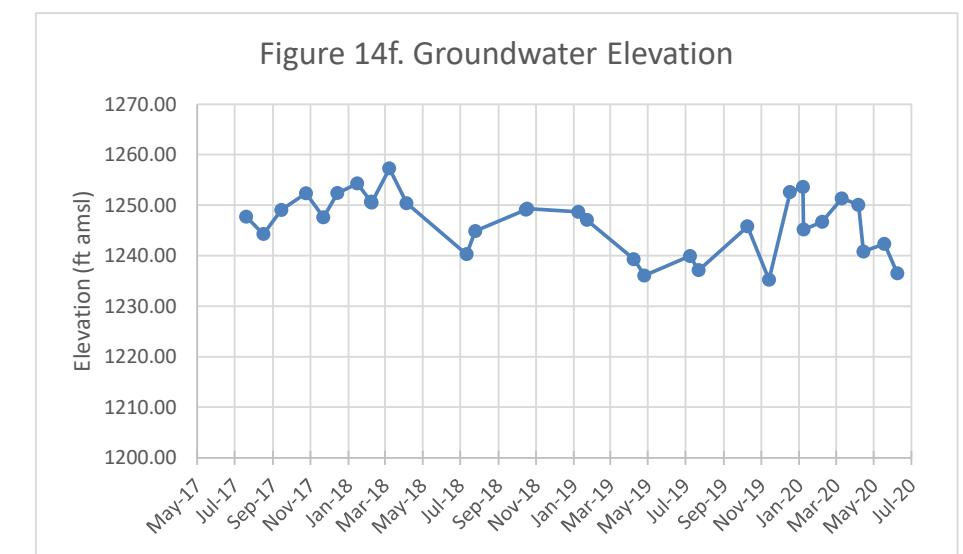
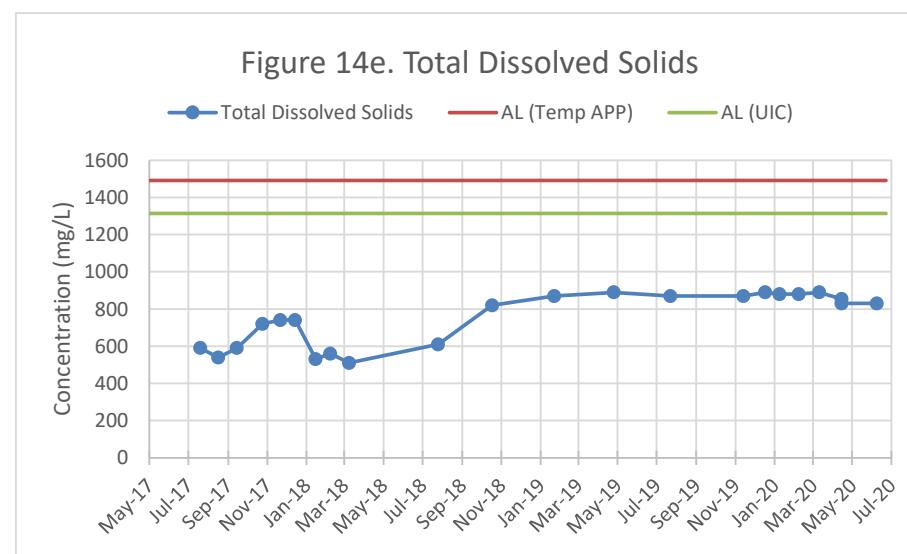
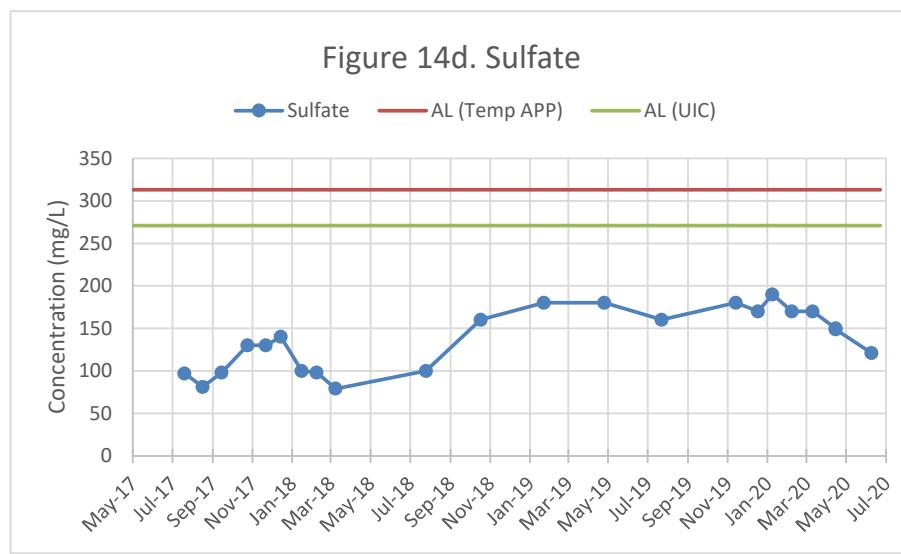
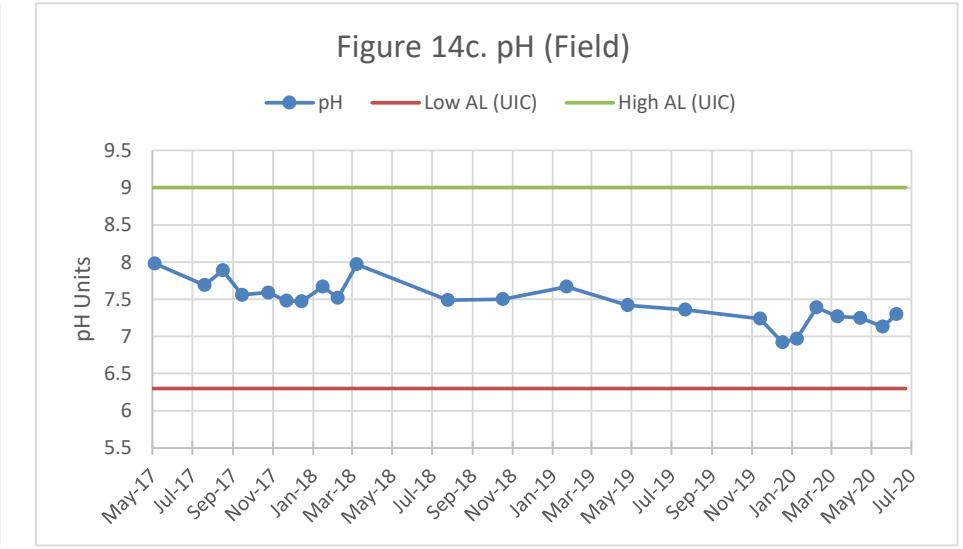
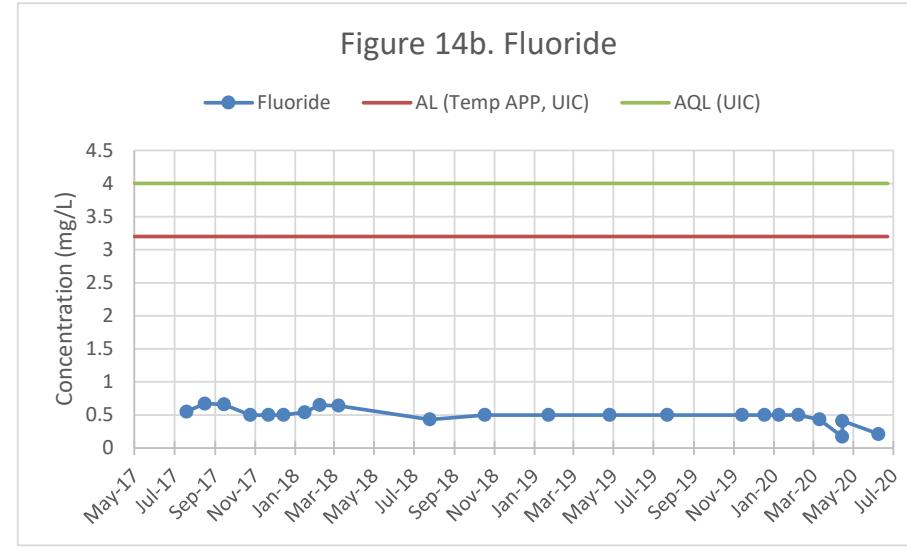
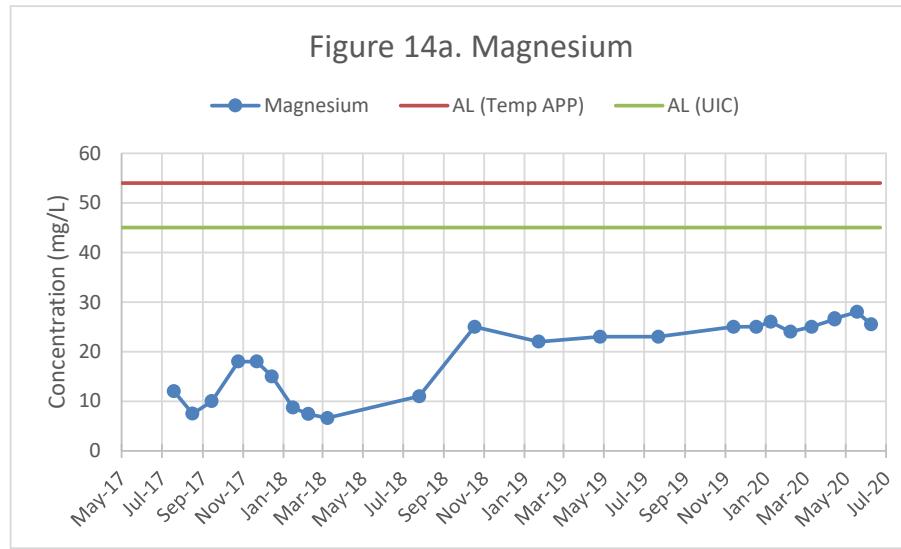
AQL = Aquifer Quality Limit

Temp APP = Temporary APP No P-106360

UIC = Underground Injection Control

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M60-O QUARTERLY CONCENTRATION GRAPHS



Notes:

AL = Alert level

APP = Aquifer Protection Permit

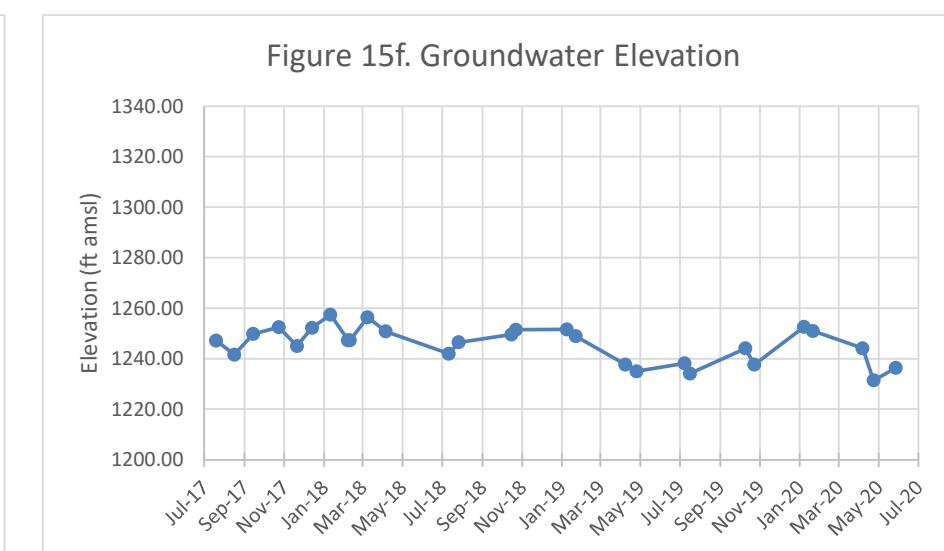
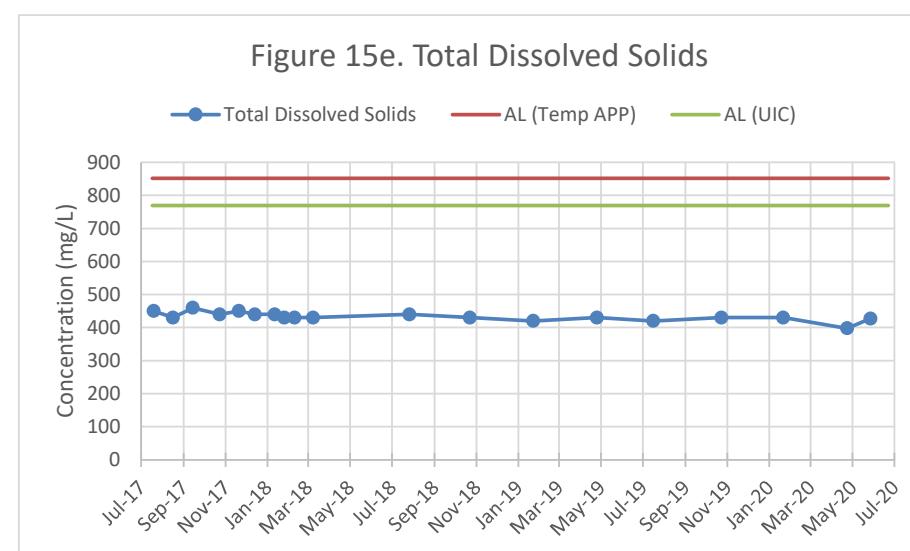
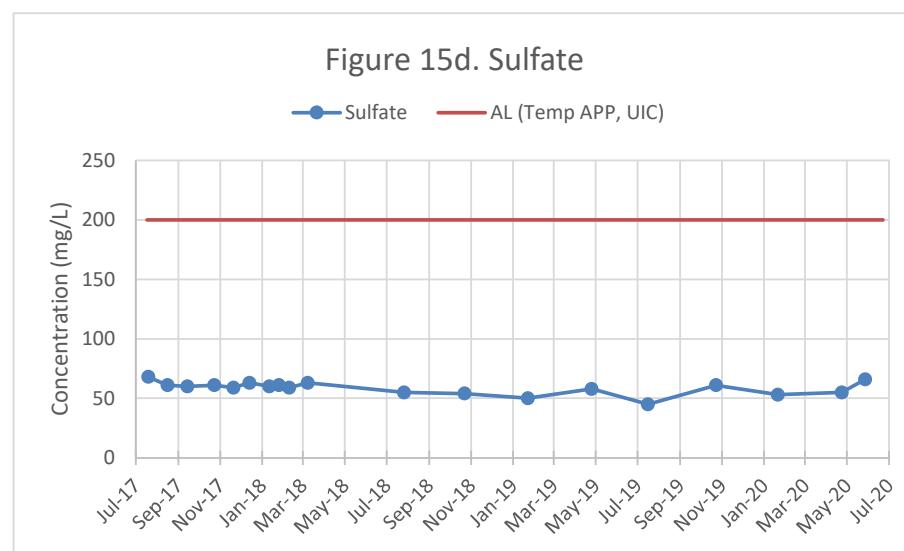
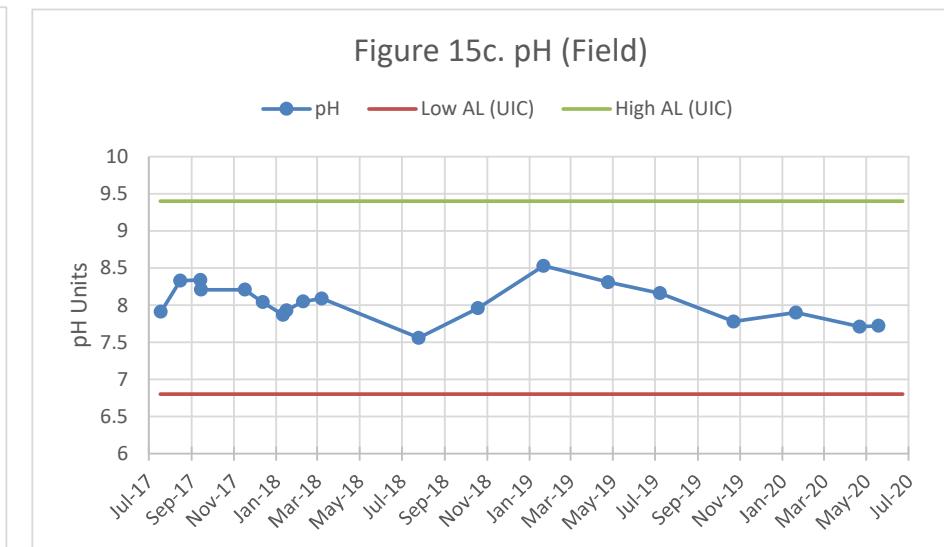
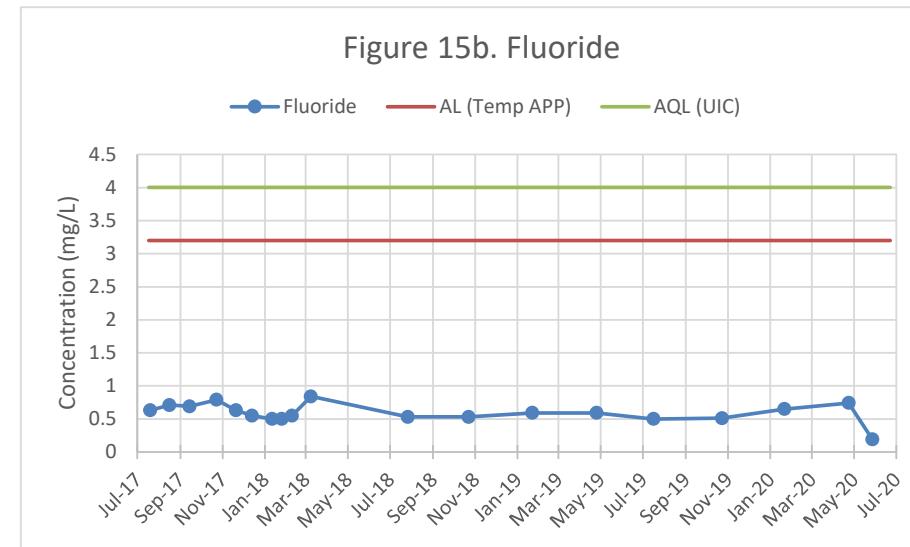
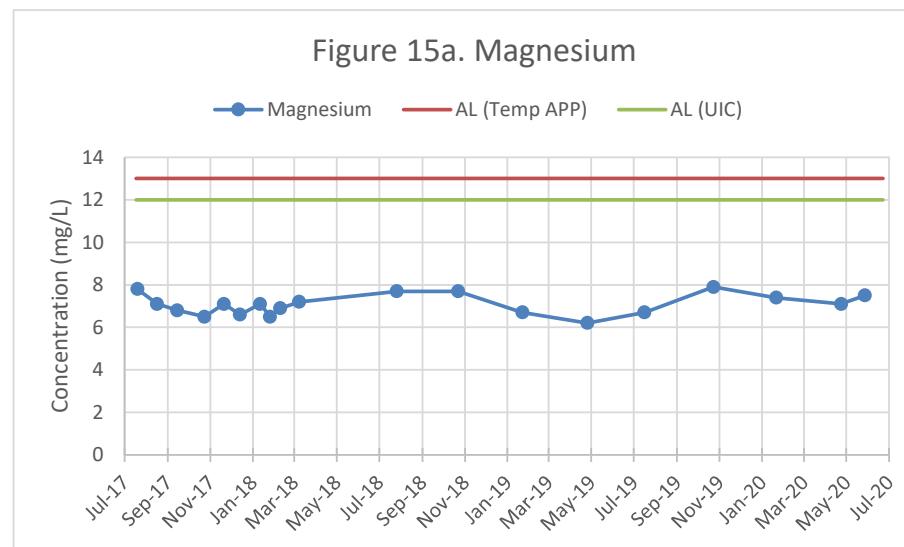
AQL = Aquifer Quality Limit

Temp APP = Temporary APP No P-106360

UIC = Underground Injection Control

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M61-LBF QUARTERLY CONCENTRATION GRAPHS



Notes:

AL = Alert level

APP = Aquifer Protection Permit

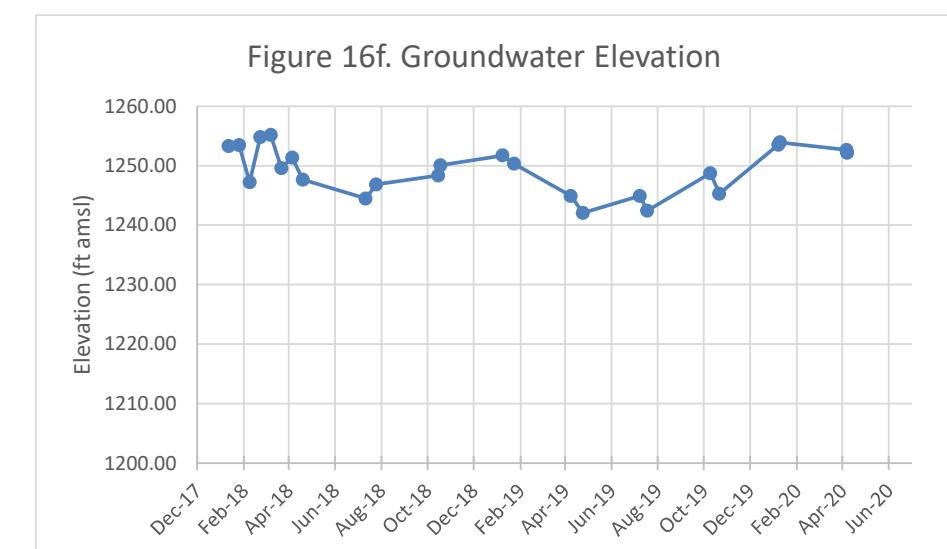
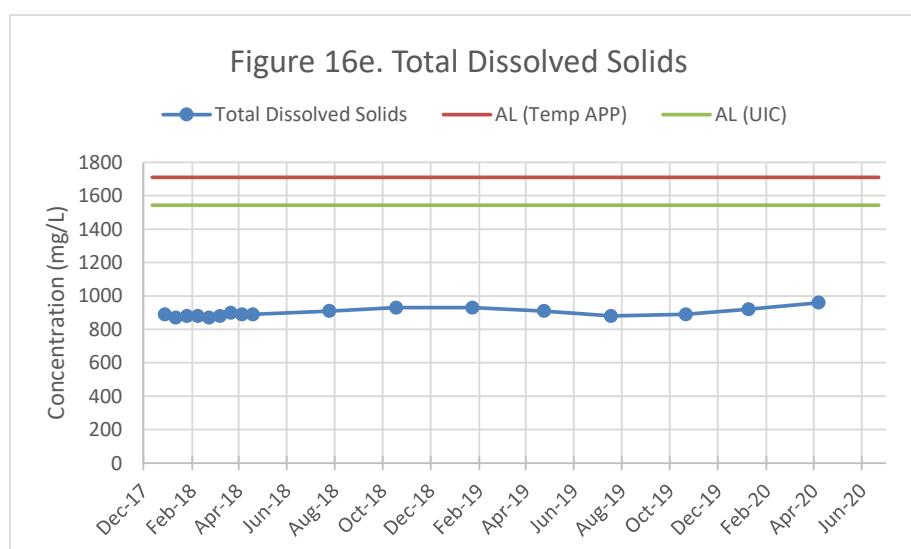
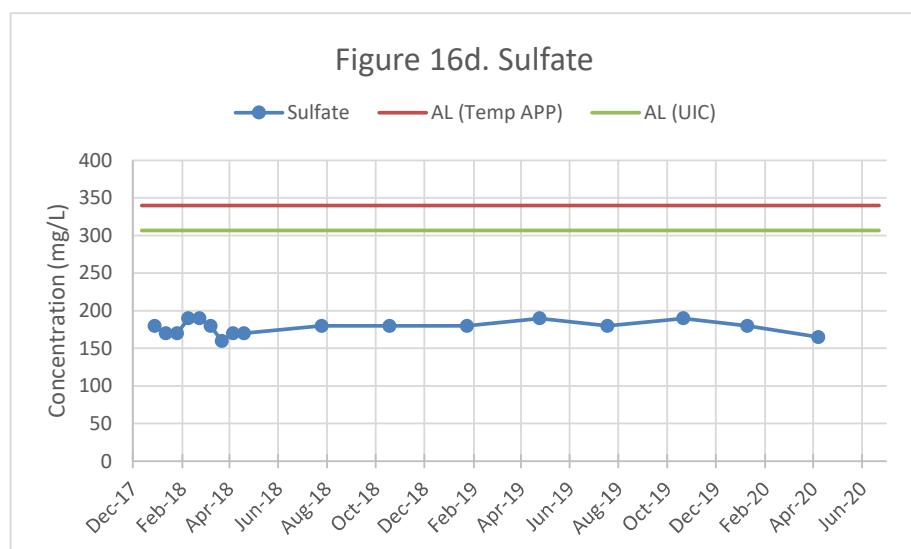
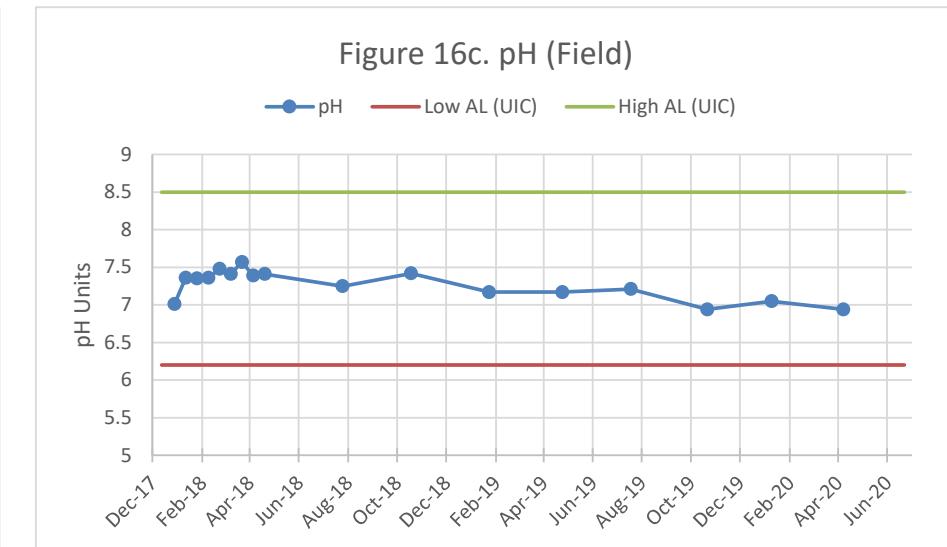
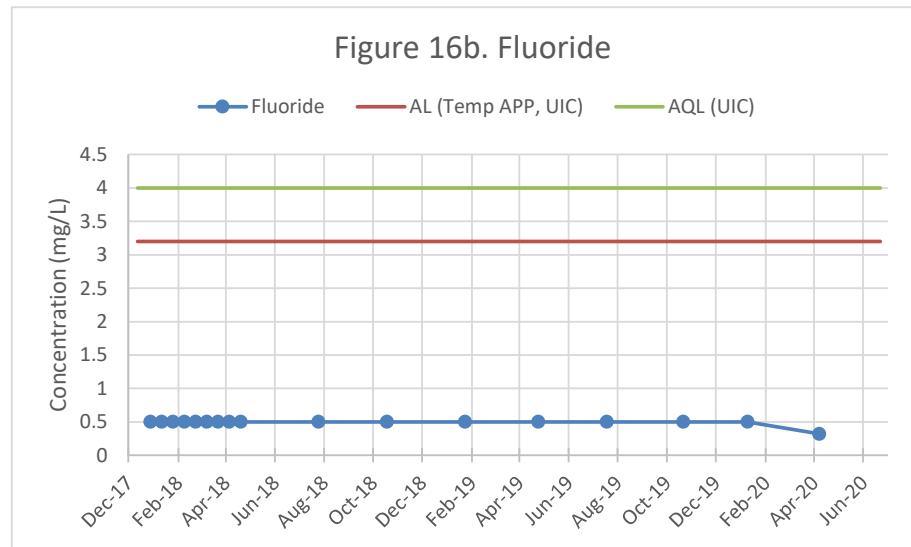
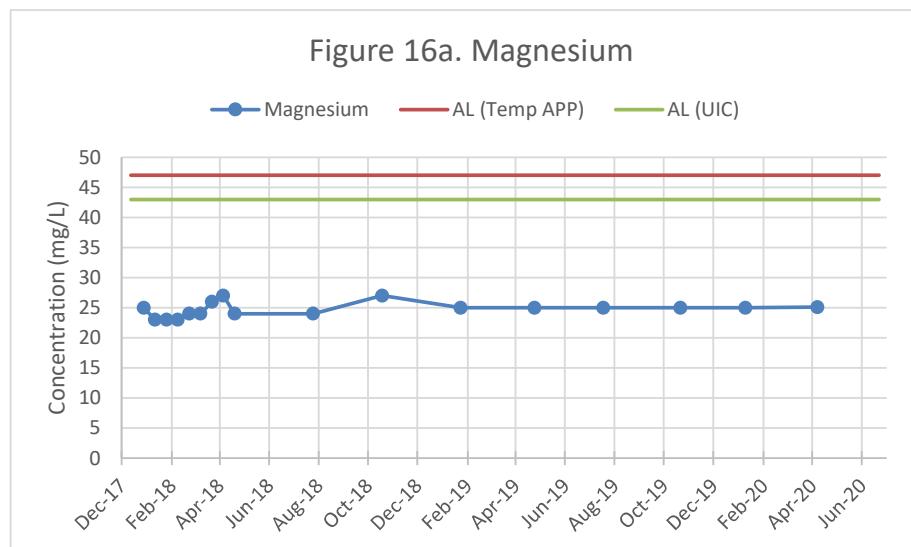
AQL = Aquifer Quality Limit

Temp APP = Temporary APP No P-106360

UIC = Underground Injection Control

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

MW-01-LBF QUARTERLY CONCENTRATION GRAPHS



Notes:

AL = Alert level

APP = Aquifer Protection Permit

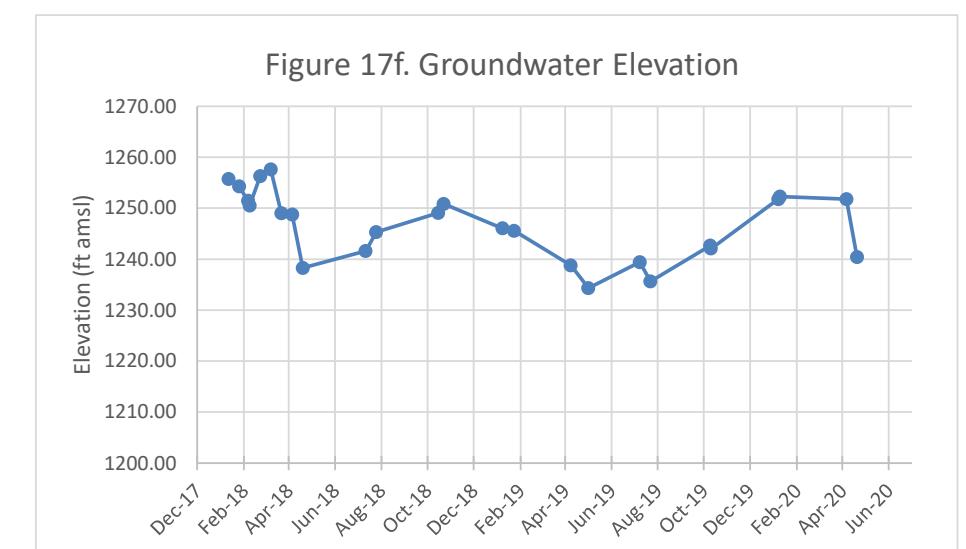
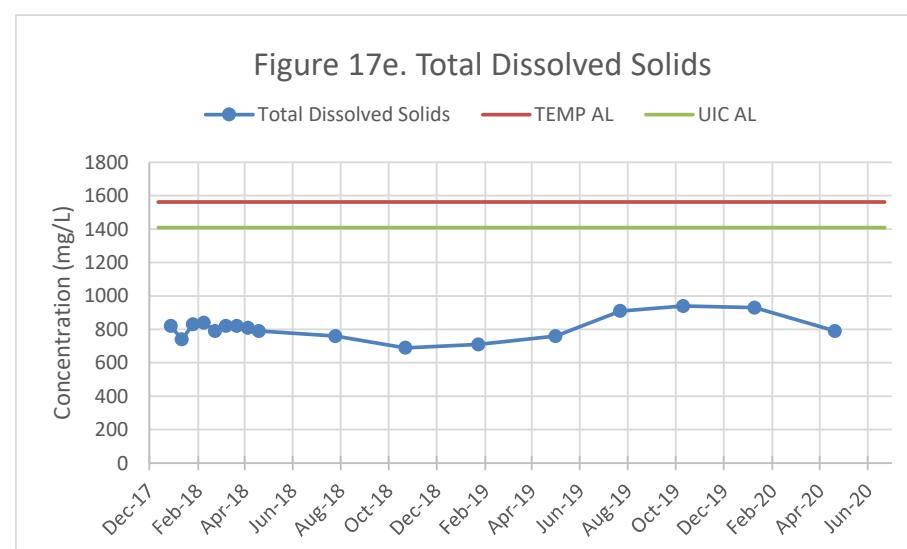
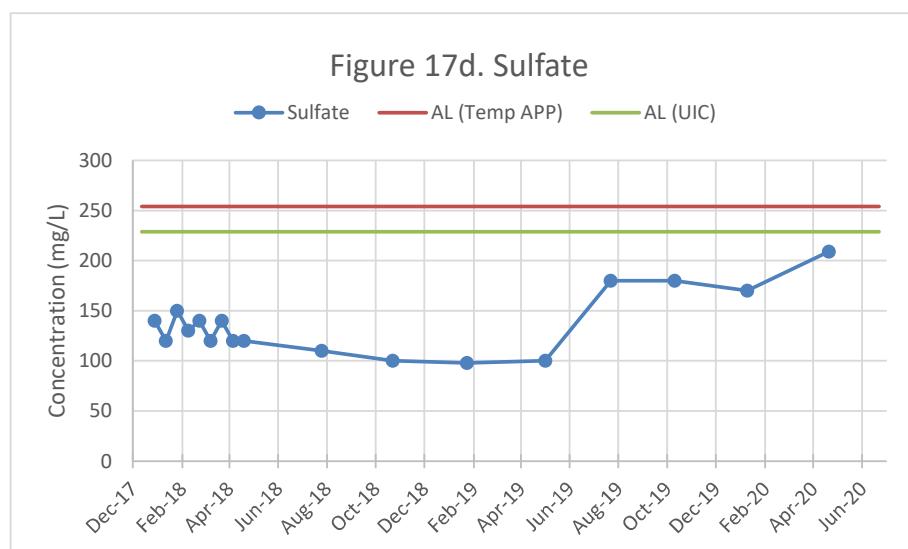
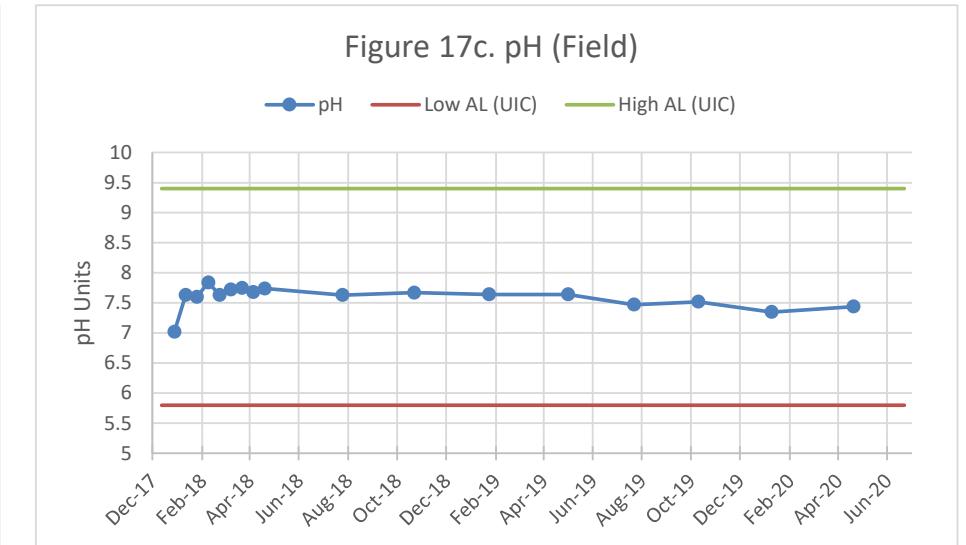
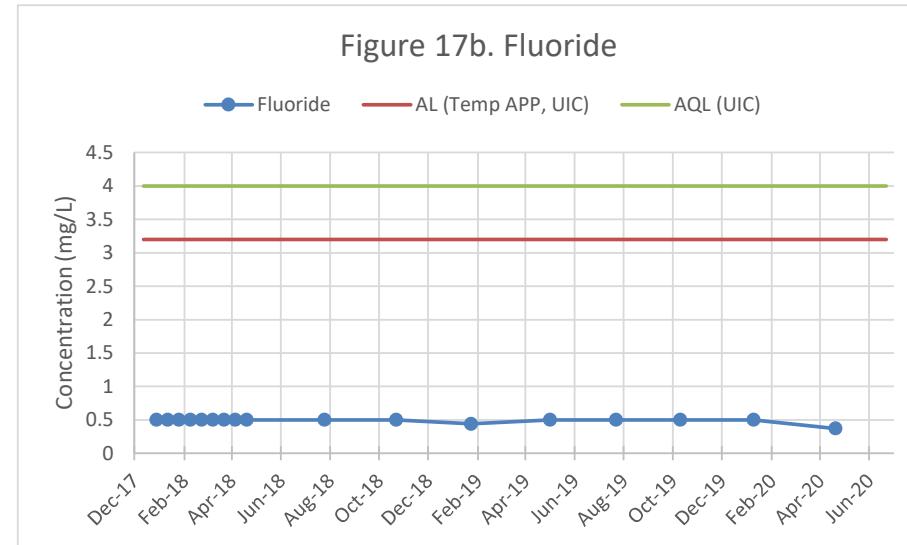
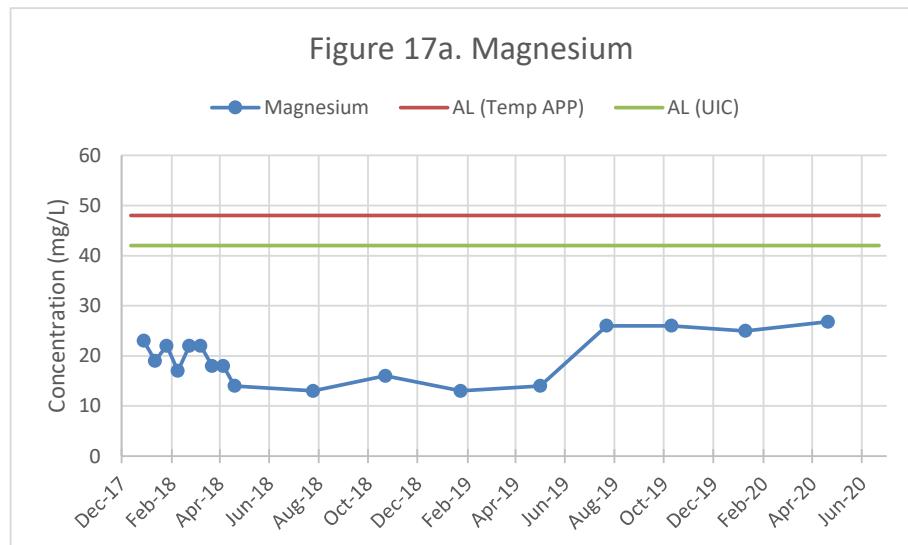
AQL = Aquifer Quality Limit

Temp APP = Temporary APP No P-106360

UIC = Underground Injection Control

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

MW-01-O QUARTERLY CONCENTRATION GRAPHS



Notes:

AL = Alert level
 APP = Aquifer Protection Permit
 AQL = Aquifer Quality Limit
 Temp APP = Temporary APP No P-106360
 UIC = Underground Injection Control
 UIC = UIC Permit No. R9UIC-AZ3-FY11-1

ATTACHMENT 6B

Well Details and Water Level Elevations

**Q2 2020 TEMPORARY APP AND
UIC MONITORING WELL DETAILS**
FLORENCE COPPER INC.
FLORENCE, ARIZONA

Table 1. Well Details

Well ID	Well Type	ADWR #	Total Well Depth (ft bgs)	Latitude	Longitude	Screened Interval (ft bgs)	Aquifer Unit
M14-GL	POC	55-549172	838	33°03'4.0"N	111°26'15.77"W	778-838	LBFU
M15-GU	POC	55-547813	594	33°03'4.04"N	111°26'16.40"W	554-594	LBFU
M22-O	POC	55-555831	1,130	33°03'4.53"N	111°26'15.76"W	932-1,130	OXIDE
M23-UBF	POC	55-555824	250	33°03'4.51"N	111°26'16.50"W	210-250	UBFU
M54-LBF	POC	55-226792	629	33°03'7.07"N	111°26'9.29"W	310-629	LBFU
M54-O	POC	55-226798	1,199	33°03'6.91"N	111°26'9.22"W	668-1,199	OXIDE
M52-UBF	POC	55-226788	274	33°03'11.03"N	111°25'24.66"W	200-274	UBFU
M55-UBF	Monitor	55-226797	261	33°03'1.99"N	111°26'6.18"W	240-261	UBFU
M56-LBF	Monitor	55-226795	340	33°03'2.21"N	111°26'6.44"W	320-340	LBFU
M57-O	Monitor	55-226790	1,200	33°03'1.88"N	111°26'8.39"W	523-1,200	OXIDE
M58-O	Monitor	55-226794	1,200	33°03'5.20"N	111°26'4.94"W	594-1,200	OXIDE
M59-O	Monitor	55-226791	1,200	33°03'1.58"N	111°26'2.25"W	534-1,200	OXIDE
M60-O	Monitor	55-226796	1,201	33°02'58.70"N	111°26'5.78"W	444-1,201	OXIDE
M61-LBF	Monitor	55-226799	630	33°03'0.85"N	111°25'58.92"W	429-630	LBFU
MW-01-LBF	Operational	55-226789	440	33°03'02.9442"N	111°26'07.1046"W	330-440	LBFU
MW-01-O	Operational	55-226793	1,200	33°03'03.045"N	111°26'06.9786"W	500-1,200	OXIDE
New Wells Constructed or Replaced							
M57R-O	Monitor	55-229751	1,200	33°03'0.31"N	111°26'8.16"W	550-1,200	OXIDE

Notes:

ADWR = Arizona Department of Water Resources

APP = Aquifer Protection Permit

ft bgs = feet below ground surface

LBFU = lower basin fill unit

POC = point of compliance

UBFU = upper basin fill unit

UIC = Underground Injection Control

SUMMARY OF QUARTERLY WATER LEVELS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 2. Water Levels

Location ID	Date	Depth to Water	Description of Measuring Point	Elevation of Measuring Point	Water Level Elevation
		(feet)		(feet amsl)	(feet amsl)
M14-GL	04/06/2020	224.25	TOC	1477.12	1252.87
M14-GL	04/14/2020	231.04	TOC	1477.12	1246.08
M15-GU	04/06/2020	223.12	TOC	1476.53	1253.41
M15-GU	04/14/2020	229.91	TOC	1476.53	1246.62
M22-O	04/06/2020	225.81	TOM	1478.58	1252.77
M22-O	04/15/2020	233.90	TOM	1478.58	1244.68
M23-UBF	04/06/2020	219.27	TOM	1477.61	1258.34
M23-UBF	04/14/2020	219.55	TOM	1477.61	1258.06
M52-UBF	04/06/2020	228.65	TOC	1485.04	1256.39
M52-UBF	04/13/2020	229.04	TOC	1485.04	1256.00
M54-LBF	04/06/2020	228.75	TOC	1481.92	1253.17
M54-LBF	04/21/2020	235.57	TOC	1481.92	1246.35
M54-O	04/06/2020	230.15	TOC	1482.47	1252.32
M54-O	04/21/2020	241.50	TOC	1482.47	1240.97
M55-UBF	04/06/2020	225.55	TOC	1479.14	1253.59
M55-UBF	04/08/2020	NM	TOC	1479.14	NM
M56-LBF	04/06/2020	226.63	TOC	1478.65	1252.02
M56-LBF	04/08/2020	227.68	TOC	1478.65	1250.97
M57-O	04/06/2020	227.88	TOC	1478.71	1250.83
M57-O	04/08/2020	228.51	TOC	1478.71	1250.20
M57R-O	04/06/2020	227.15	TOC	1478.29	1251.14
M57R-O	04/23/2020	240.60	TOC	1478.29	1237.69
M58-O	04/06/2020	229.66	TOC	1481.08	1251.42
M58-O	04/08/2020	232.00	TOC	1481.08	1249.08
M59-O	04/06/2020	234.95	TOC	1480.19	1245.24
M59-O	04/28/2020	241.12	TOC	1480.19	1239.07
M59-O	06/01/2020	238.47	TOC	1480.19	1241.72
M59-O	06/22/2020	236.17	TOC	1480.19	1244.02
M60-O	04/06/2020	227.29	TOC	1477.36	1250.07
M60-O	04/14/2020	236.56	TOC	1477.36	1240.80
M60-O	05/18/2020	235.02	TOC	1477.36	1242.34
M60-O	06/08/2020	240.82	TOC	1477.36	1236.54
M61-LBF	04/06/2020	236.60	TOC	1480.78	1244.18
M61-LBF	04/23/2020	249.35	TOC	1480.78	1231.43
M61-LBF	05/27/2020	244.33	TOC	1480.78	1236.45
MW-01-LBF	04/06/2020	226.27	TOC	1478.92	1252.65
MW-01-LBF	04/07/2020	226.75	TOC	1478.92	1252.17
MW-01-O	04/06/2020	227.32	TOC	1479.07	1251.75
MW-01-O	04/20/2020	238.68	TOC	1479.07	1240.39
Mine Shaft	04/06/2020	232.10	TOS	1480.40	1248.30
Status of Local Production Wells					
BIA-9R	04/06/2020			Pumping	
BIA-10	04/06/2020			Pumping	
PW2-1	04/06/2020			Not Pumping	
WW-4	04/06/2020			Not Pumping	

Abbreviations:
amsl = above mean sea level
NM = not measured. Unable to get sounder downhole..
TOC = top of casing
TOM = top of monument
TOS = top of stickup

ATTACHMENT 6C

Groundwater Monitoring Summary

TECHNICAL MEMORANDUM

28 July 2020
File No. 133887-004

TO: Florence Copper Inc.
Brent Berg
General Manager

FROM: Haley & Aldrich, Inc.
Sarah Cooper, P.E.
Technical Specialist
Mark Nicholls, R.G.
Lead Hydrogeologist

SUBJECT: Florence Copper Project
Quarterly Compliance Monitoring Report
Temporary Aquifer Protection Permit (APP) and Underground Injection Control (UIC)
Permit, Second Quarter 2020



Haley & Aldrich, Inc. has prepared this memorandum to present the results of the quarterly compliance groundwater monitoring conducted during the second quarter (Q2) 2020 at the Florence Copper Project. The Florence Copper Project is subject to three related permits issued by the Arizona Department of Environmental Quality (ADEQ) and the U.S. Environmental Protection Agency (USEPA).

APP Covering the 1997-98 BHP Pilot Facilities and Future Operations (Sitewide APP):

- ADEQ APP No. P-101704 (LTF 65804) dated 13 October 2017.

Permits Covering the Current Production Test Facility:

- ADEQ Temporary APP No. P-106360 (LTF 80030) dated 13 February 2020 (Temporary APP), and
- USEPA UIC Permit No. R9UIC-AZ3-FY11-1 dated 20 December 2016.

This report presents the results of the Q2 2020 groundwater monitoring activities required by the Temporary APP and UIC permit.

Sampling Activities

During Q2 2020, monitoring was conducted at 16 point-of-compliance, monitoring, and supplemental wells, and one replacement well (M57R-O) not yet incorporated into the Temporary APP or UIC permit. Water levels were collected on 6 April 2020, and quarterly groundwater sampling was conducted between 7 April and 22 June 2020. For some wells, multiple samples were collected due to potential or confirmed alert level (AL) exceedances. Additional details are provided below. Groundwater sampling and analysis was conducted in accordance with the requirements of Sections 2.5.3 and 2.5.8 of the Temporary APP and Part II.F of the UIC permit.

The majority of the monitoring wells are equipped with low-flow bladder pumps. Low-flow sampling was conducted in accordance with Section 2.5.3 of the Temporary APP. Wells M14-GL, M22-O, and M57-O were equipped with stainless steel electric submersible pumps and were sampled by purging a minimum of three borehole volumes. No modified sampling procedures were used.

Each sample was labeled, placed in a cooler with ice, maintained at 4 degrees Celsius ($^{\circ}\text{C}$) $\pm 2^{\circ}\text{C}$, and transported under chain of custody to Pace Analytical (Pace) or Test America for analysis. Samples were analyzed for the quarterly (Level 1) monitoring parameters listed in Table 4.1-6 of the Temporary APP and Table 1 of the UIC permit, as well as the semi-annual (Level 2) monitoring parameters in Table 4.1-7 of the Temporary APP and Table 2 of the UIC permit. Sample containers collected for radiological parameter analysis were labelled and transported under chain of custody directly to Radiation Safety Engineering, Inc. who performed the analyses as a subcontractor to the primary laboratory. Note that uranium activity and adjusted gross alpha are analyzed and reported only when gross alpha results exceed 12 picocuries per liter (pCi/L), except at wells M52-UBF, M54-LBF, and M54-O, where those parameters are always analyzed and reported.

Monthly monitoring was performed during Q2 2020 for well M60-O due to a Temporary APP AL exceedance of gross alpha confirmed in Q4 2019¹. Samples collected from M60-O in April were analyzed for the quarterly (Level 1) monitoring parameters, as well as the semi-annual (Level 2) monitoring parameters. Samples collected in May and June were analyzed for the quarterly (Level 1) monitoring parameters, and gross alpha, uranium activity, and adjusted gross alpha.

Results

The results of the Q2 2020 monitoring event are presented in Tables 1 through 6 as follows:

- Table 1 – Q2 2020 Field Parameters²;
- Table 2 – Q2 2020 Quarterly (Level 1) Analytical Parameters;
- Table 3 – Q2 2020 Inorganic Parameters;

¹ Well M60-O had a confirmed exceedance of the Temporary APP gross alpha AL based on the sample collected on 17 December 2019.

² Note that turbidity was monitored as a field parameter in addition to field pH, temperature, and specific conductance, but is not required by the Temporary APP or UIC permit and is therefore not reported.

- Table 4 – Q2 2020 Radiochemical Parameters;
- Table 5 – Q2 2020 Organic Parameters; and
- Table 6 – Q2 2020 Trace Metals.

The Q2 2020 results were compared to the ALs and aquifer quality limits (AQLs) listed in the applicable tables in Section 4.0 of the Temporary APP, Appendix K of the UIC permit, and Table 4B of the document submitted to the USEPA dated 12 December 2018 and entitled *Procedures for Determining Alert Levels and Aquifer Quality Limits for Groundwater Compliance Monitoring*. The Q2 2020 results for replacement well M57R-O were compared to the proposed ALs and AQLs submitted by Florence Copper Inc. (Florence Copper) to ADEQ and USEPA in the letter entitled *Proposed Alert Levels and Aquifer Quality Limits for Replacement Supplemental Monitoring Well M57R-O* and dated 25 March 2020.

A quality assurance/quality control summary of the Q2 2020 data is provided in Appendix A.

RESOLVED EXCEEDANCES

M57-O

During Q2 2020, the exceedance of the magnesium Temporary APP AL in M57-O, which was identified in October 2019, was resolved. As required by the Temporary APP, monthly monitoring of the well began in November 2019. Section 2.6.2.4.1 of the Temporary APP specifies that an exceedance is resolved and monitoring may return to the routine quarterly schedule after three consecutive sample return results below the applicable AL. The 8 April 2020 sampling event marked the third consecutive monthly sample in which the concentration of magnesium was below the Temporary APP AL. Therefore, the former exceedance was resolved and monthly monitoring of well M57-O concluded with the 8 April 2020 sampling event. The next sampling event is scheduled for Q3 2020.

M59-O

During Q2 2020, the exceedance of the sulfate UIC AL in M59-O, which was identified based on the 21 March 2020 sampling event, was resolved. In accordance with the UIC Permit, Florence Copper submitted a 30-day report on 13 May 2020 evaluating of the cause, impacts, or mitigation of the discharge responsible for the sulfate AL exceedance.

The evaluation indicates that redevelopment of nearby observation wells O-01 and O-02 may be the cause of the sulfate AL exceedance in M59-O. Redevelopment of O-01 and O-02 was performed in the days preceding the sampling of M59-O and consisted of brushing, swabbing, and airlifting to remove gypsum scale ($\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$) from the well screens. The redevelopment likely released calcium and sulfate from the dissolution of the gypsum which may have been drawn to M59-O as it was being pumped for the sampling event. The evaluation notes that hydraulic control was maintained throughout Q1 2020 in the paired observation and recovery wells nearest M59-O. In response to the exceedance, injection and recovery flows on the east side of the PTF wellfield nearest M59-O were adjusted to increase the hydraulic gradient. This sulfate concentration does not pose a threat the health and safety of the public or the environment.

The sulfate concentration in M59-O from the routine sample collected during Q2 2020 on 28 April 2020 was 69.9 mg/L, below the Temporary APP and UIC ALs, thereby resolving the Q1 2020 exceedance.

Q2 2020 AL AND AQL EXCEEDANCES

No AQL exceedances occurred during Q2 2020. The following AL exceedances occurred in Q2 2020, and are described in more detail below:

- Gross alpha in wells M58-O, M59-O, M60-O, and MW-01-O exceeded the Temporary APP AL.

Gross alpha has no established AWQS. In fact, gross alpha acts as an indicator parameter for *adjusted* gross alpha, which does have an established AWQS of 15 pCi/L. Adjusted gross alpha is calculated by subtracting the sum of a sample's uranium activity from the gross alpha result. Under the Temporary APP and UIC permit, adjusted gross alpha is only to be calculated if the gross alpha result exceeds 12 pCi/L. When gross alpha results are less than 12 pCi/L, it is impossible for adjusted gross alpha to exceed the AWQS, therefore calculation is not required.

For wells M58-O, M59-O, M60-O, and MW-01-O, exceedance of the Temporary APP gross alpha AL triggered calculation of adjusted gross alpha. For each sample collected from each of the wells, adjusted gross alpha was below its applicable ALs and AQLs indicating that there is no threat to human health or the environment. Because adjusted gross alpha is regulated at the state level by an AWQS and the concentrations of adjusted gross alpha in M58-O, M59-O, M60-O, and MW-01-O were below their ALs, contingency sampling is not required as a result of the gross alpha AL exceedances.

Well-specific details regarding the gross alpha exceedances are provided in the following sections.

Well M58-O

On 4 May 2020, Florence Copper was notified of an exceedance of the Temporary APP AL for gross alpha in M58-O based on the sample collected on 8 April 2020. Gross alpha was reported at 20.2 ± 1.4 pCi/L, above the Temporary APP AL of 15 pCi/L. All other parameters, including adjusted gross alpha, were below their respective ALs. Florence Copper notified ADEQ of the AL exceedance via MyDEQ on 5 May 2020. As documented in the MyDEQ notification, no contingency actions are required because adjusted gross alpha, which has an established AWQS, was below the AL. On 5 May 2020, Florence Copper received a notification that the MyDEQ Incident (ID:INC11058) had been reviewed and the status set to resolved.

Well M59-O

On 20 May 2020, Florence Copper was notified of an exceedance of the Temporary APP AL for gross alpha in M59-O based on the split sample collected on 28 April 2020. Gross alpha was reported at 18.4 ± 1.4 pCi/L, above the Temporary APP AL of 15 pCi/L. All other parameters, including adjusted gross alpha, were below their respective ALs. Florence Copper notified ADEQ of the AL exceedance via MyDEQ on 22 May 2020. As documented in the MyDEQ notification, no contingency actions are

required because adjusted gross alpha, which has an established AWQS, was below the AL. On 22 May 2020, Florence Copper received a notification that the MyDEQ Incident (ID:INC11168) had been reviewed and the status set to resolved.

M60-O

The first occurrence of a gross alpha AL exceedance occurred in well M60-O in Q4 2019. Out of an abundance of caution, Florence Copper elected to initiate monthly monitoring of M60-O for gross alpha, uranium activity, and adjusted gross alpha following the confirmed exceedance. Monthly monitoring of M60-O has been conducted from January 2020 through June 2020.

During Q2 2020, gross alpha concentrations in the monthly M60-O sampling events continued to exceed the Temporary APP AL of 15 pCi/L, and ranged from 36.4 ± 1.4 to 44.4 ± 1.6 pCi/L. All other parameters, including adjusted gross alpha, were below their respective ALs in each sample. On 11 June 2020, Florence Copper notified ADEQ of the April and May 2020 monthly sampling event results and of their plans to redevelop the well prior to the routine Q3 2020 sampling event scheduled for July. On 12 June 2020, Florence Copper received a notification that the MyDEQ incident (ID:INC11200) had been reviewed and the status set to resolved.

Each of the monthly sampling events conducted since January 2020 have returned gross alpha concentrations exceeding the Temporary APP AL and adjusted gross alpha concentrations below the applicable AL and AQL. Because adjusted gross alpha is regulated at the state level by an AWQS and the concentrations of adjusted gross alpha M60-O have not exceeded the AL, Florence Copper intends to discontinue monthly monitoring of well M60-O following the Q3 2020 sampling event scheduled for July, provided that no other monitoring parameters exceed their applicable ALs or AQLs.

MW-01-O

On 14 May 2020, Florence Coper was notified of an exceedance of the Temporary APP AL for gross alpha in well MW-01-O based on the sample collected on 20 April 2020. Gross alpha was reported at 16.5 ± 0.9 pCi/L, above the Temporary APP AL of 15 pCi/L. All other parameters, including adjusted gross alpha, were below their applicable ALs and AQLs. Florence Copper notified ADEQ of the AL exceedance via MyDEQ on 15 May 2020. As documented in the MyDEQ notification, no contingency actions are required as a result of this exceedance because adjusted gross alpha, which has an established AWQS, was below the AL. On 15 May 2020, Florence Copper received a notification that the MyDEQ Incident (ID:INC11099) had been reviewed and the status set to resolved.

CONTINGENCY SAMPLING PLANS

Contingency sampling plan procedures consistent with Part II.H.2 of the UIC Permit were implemented during Q2 2020 when initial sample results indicated potential AL exceedances for Total Petroleum Hydrocarbons, Diesel Range Organics (TPH-DRO) in wells M59-O and M61-LBF.

M59-O

On 20 May 2020, Florence Copper was notified of a potential exceedance of the UIC AL for TPH-DRO in M59-O based on the primary sample collected on 28 April 2020. TPH-DRO was reported at 0.907 mg/L, above the UIC AL of 0.28 mg/L. All other parameters were below their applicable ALs. In accordance with Part II.H.2.a of the UIC, a verification sample was collected on 1 June 2020. On 17 June 2020, Florence Copper was notified by the laboratory that due to a laboratory error, analysis of TPH-DRO was not completed within the hold time. As a result, a second verification sample was collected from M59-O on 22 June 2020. On 7 July 2020, Florence Copper was notified that the TPH-DRO concentration in the verification sample was below the UIC AL, and not detected above the method detection limit, thereby dismissing the potential exceedance. Florence Copper notified USEPA of the results on 9 July 2020, and no further action is necessary.

M61-LBF

On 14 May 2020, Florence Copper was notified of a potential exceedance of the UIC AL for TPH-DRO in well M61-LBF based on the sample collected on 23 April 2020. TPH-DRO was reported at 1.08 mg/L, above the UIC AL of 0.28 mg/L. All other parameters were below their applicable ALs. In accordance with Part II.H.2.a of the UIC, a verification sample was collected on 27 May 2020. On 12 June 2020, Florence Copper was notified that the TPH-DRO concentration in the verification sample was below the UIC AL, and not detected above the method detection limit, thereby dismissing the potential exceedance. Florence Copper notified USEPA of the results on 18 June 2020, and no further action is necessary.

Enclosures:

- Table 1 – Q2 2020 Field Parameters
- Table 2 – Q2 2020 Quarterly (Level 1) Analytical Parameters
- Table 3 – Q2 2020 Inorganic Parameters
- Table 4 – Q2 2020 Radiochemical Parameters
- Table 5 – Q2 2020 Organic Parameters
- Table 6 – Q2 2020 Trace Metals
- Appendix A – Data Quality Assurance/Quality Control Summary Memorandum

TABLES

TABLE 1
Q2 2020 FIELD PARAMETERS
FLORENCE COPPER INC.
FLORENCE, ARIZONA

Location	Sample Date	Temperature, Field Deg C	Temperature, Field Deg F	pH, Field pH units	pH Low UIC Alert Level pH units	pH High UIC Alert Level pH units	Specific Conductance, Field μmhos/cm
M14-GL	04/14/2020	26.0	78.8	7.98	NE	NE	793
M15-GU	04/14/2020	20.0	68.0	6.96	NE	NE	1,422
M22-O	04/16/2020	28.4	83.1	7.89	NE	NE	764
M23-UBF	04/14/2020	22.7	72.9	6.78	NE	NE	1,857
M52-UBF	04/13/2020	21.5	70.7	6.96	6.9	7.9	1,418
M54-LBF	04/21/2020	22.9	73.2	7.12	6.5	8.2	1,489
M54-O	04/21/2020	24.4	75.9	7.72	6.8	9.4	785
M55-UBF	04/08/2020	22.1	71.8	7.05	6.6	7.8	1,563
M56-LBF	04/08/2020	22.5	72.5	6.77	6.5	8.3	1,535
M57-O	04/08/2020	25.9	78.6	7.28	7.2	8.5	1,175
M57R-O	04/23/2020	23.1	73.6	7.47	NE	NE	1,066
M58-O	04/08/2020	24.9	76.8	6.55	6.2	9.0	1,392
M59-O	04/28/2020	24.5	76.1	7.53	7.0	8.7	934
M59-O	06/01/2020	25.4	77.7	7.75	7.0	8.7	1,031
M59-O	06/22/2020	24.0	75.2	7.60	7.0	8.7	821
M60-O	04/14/2020	25.0	77.0	7.25	6.3	9.0	1,485
M60-O	05/18/2020	24.3	75.7	7.13	6.3	9.0	1,470
M60-O	06/08/2020	23.5	74.3	7.30	6.3	9.0	1,437
M61-LBF	04/23/2020	25.1	77.2	7.71	6.8	9.4	752
M61-LBF	05/27/2020	23.4	74.1	7.72	6.8	9.4	749
MW-01-LBF	04/07/2020	24.2	75.6	6.94	6.2	8.5	1,484
MW-01-O	04/20/2020	23.0	73.4	7.44	5.8	9.4	1,507

Abbreviations:

Deg C = degrees Celsius

Deg F = degrees Fahrenheit

NE = not established

UIC = Underground Injection Control

μmhos/cm = micromhos per centimeter

TABLE 2

Q2 2020 QUARTERLY (LEVEL 1) ANALYTICAL PARAMETERS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Location ID	Sample Date	Sample Type	Magnesium, Dissolved			Sulfate			Fluoride					Total Dissolved Solids (TDS)		
			Concentration	TEMP APP Alert Level	UIC Alert Level	Concentration	TEMP APP Alert Level	UIC Alert Level	Concentration	TEMP APP Alert Level	TEMP APP AQL	UIC Alert Level	UIC AQL	Concentration	TEMP APP Alert Level	UIC Alert Level
M14-GL	04/14/2020	Primary	1.9	23	23	60.4	144	144	0.24	3.2	4.0	3.2	4.0	410	874	874
M15-GU	04/14/2020	Primary	26.0	44	44	81.3	126	126	0.40	3.2	4.0	3.2	4.0	745	1359	1359
M22-O	04/16/2020	Primary	6.0	8.6	8.6	57.2	86	86	0.76	3.2	4.0	3.2	4.0	383	1094	1094
M23-UBF	04/14/2020	Primary	29.8	69	69	227	411	411	0.36	3.2	4.0	3.2	4.0	1,030	2392	2392
M52-UBF	04/13/2020	Primary	26.3	45	41	167	351	316	0.62	3.2	4.0	3.2	4.0	840	1666	1502
M52-UBF	04/13/2020	Split	23.0	45	41	167	351	316	0.861	3.2	4.0	3.2	4.0	828	1666	1502
M54-LBF	04/21/2020	Primary	25.7	46	42	175	329	297	0.83	3.2	4.0	3.2	4.0	875	1731	1561
M54-O	04/21/2020	Primary	6.3	11	10	53.1	200	200	0.75	3.2	4.0	3.2	4.0	428	855	771
M55-UBF	04/08/2020	Primary	24.7	50	45	181	484	425	0.43	3.2	--	3.2	4.0	925	1900	1711
M56-LBF	04/08/2020	Primary	25.0	46	41	150	312	281	0.19	3.2	--	3.2	4.0	810	1646	1485
M56-LBF	04/08/2020	Duplicate	25.7	46	41	148	312	281	0.18	3.2	--	3.2	4.0	845	1646	1485
M57-O	04/08/2020	Primary	18.0	20	18	92.1	200	200	0.39	3.2	--	3.2	4.0	652	934	842
M57R-O	04/23/2020	Primary	12.5	36	35	91.1	224	230	0.78	3.2	--	3.2	4.0	605	1079	1113
M58-O	04/08/2020	Primary	19.0	59	51	98.2	435	385	0.55	3.2	--	3.2	4.0	780	1716	1539
M59-O	04/28/2020	Primary	11.5	27	23	69.9	234	202	0.32	3.2	--	3.2	4.0	390	947	854
M59-O	04/28/2020	Split	11.0	27	23	81.0	234	202	0.65	3.2	--	3.2	4.0	520	947	854
M59-O ⁽²⁾	06/01/2020	Primary	11.7	27	23	70.7	234	202	0.45	3.2	--	3.2	4.0	526	947	854
M59-O ⁽²⁾	06/22/2020	Primary	10.3	27	23	60.3	234	202	0.61	3.2	--	3.2	4.0	484	947	854
M60-O	04/14/2020	Primary	26.5	54	45	150	313	271	0.17	3.2	--	3.2	4.0	855	1492	1314
M60-O	04/14/2020	Duplicate	26.7	54	45	149	313	271	0.41	3.2	--	3.2	4.0	830	1492	1314
M60-O ⁽³⁾	05/18/2020	Primary	28.0	54	45	--	313	271	--	3.2	--	3.2	4.0	--	1492	1314
M60-O ⁽³⁾	06/08/2020	Primary	25.5	54	45	121	313	271	0.21	3.2	--	3.2	4.0	830	1492	1314
M61-LBF	04/23/2020	Primary	7.1	13	12	55.0	200	200	0.74	3.2	--	3.2	4.0	398	852	769
M61-LBF ⁽⁴⁾	05/27/2020	Primary	7.5	13	12	65.9	200	200	0.19	3.2	--	3.2	4.0	427	852	769
MW-01-LBF	04/07/2020	Primary	25.1	47	43	165	340	307	0.32	3.2	--	3.2	4.0	960	1711	1543
MW-01-O	04/20/2020	Primary	26.8	48	42	209	254	229	0.37	3.2	--	3.2	4.0	790	1563	1409
Arizona Aquifer Water Quality Standard ⁽¹⁾			--	--	--	--	--	--	4.0					--	--	--

Notes:

All results in milligrams per liter (mg/L)

Detects are **bolded**.

AQL = Aquifer Quality Limit

Temp APP = Temporary Aquifer Protection Permit No. 106360

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

(1) Arizona Aquifer Water Quality Standard (AWQS), Drinking Water Standard, December 31, 2016.

(2) Verification sampling conducted on 6/1/2020 and 6/22/2020.

(3) Increased frequency monitoring conducted on 5/18/2020 and 6/8/2020. Some data not available for 5/18/2020 sample due to a lab preservation error.

(4) Verification sampling conducted on 5/27/2020.

TABLE 3

Q2 2020 INORGANIC PARAMETERS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Location	Sample Date	Sample Type	Alkalinity, Bicarbonate	Alkalinity, Carbonate	Dissolved Calcium	Chloride	Nitrate (as N)			Nitrite (as N)			Dissolved Potassium	Dissolved Sodium	pH (Lab)	Anion/Cation Ratio
			mg/L	mg/L	mg/L	mg/L	mg/L	UIC AL	UIC AQL	mg/L	UIC AL	UIC AQL	mg/L	mg/L	pH units	%
M14-GL	04/14/2020	Primary	61.3	< 2.0	17.3	138	0.56	--	--	< 0.0094	--	--	2.9	124	7.8	0.78
M15-GU	04/14/2020	Primary	119	< 2.0	97.2	277	5.8	--	--	< 0.0094	--	--	5.4	125	7.4	2.3
M22-O	04/16/2020	Primary	88.9	< 2.0	33.9	136	0.43	--	--	< 0.0094	--	--	3.8	103	7.6	-0.72
M23-UBF	04/14/2020	Primary	183	< 2.0	138	283	9.1	--	--	< 0.0094	--	--	5.4	175	7.3	1.68
M52-UBF	04/13/2020	Primary	193	< 2.0	112	207	9.2	18.3	18.3	< 0.0094	0.8	1.0	4.7	150	7.4	3.79
M52-UBF	04/13/2020	Split	260	< 6.0	110	200	9.92	18.3	18.3	< 0.0401	0.8	1.0	4.8	140	7.5	-5.1
M54-LBF	04/21/2020	Primary	192	< 2.0	113	222	7.4	18.4	18.4	< 0.0094	0.8	1.0	5.0	170	7.2	4.66
M54-O	04/21/2020	Primary	89.5	< 2.0	30.0	146	0.33	8.0	10	< 0.0094	0.8	1.0	5.1	114	7.8	0.37
M55-UBF	04/08/2020	Primary	189	< 2.0	116	207	6.8	17	17	< 0.0094	0.8	1.0	5.0	153	7.2	3.86
M56-LBF	04/08/2020	Primary	183	< 2.0	111	205	7.6	15.5	15.5	< 0.0094	0.8	1.0	5.8	148	6.9	5.59
M56-LBF	04/08/2020	Duplicate	182	< 2.0	114	204	7.6	15.5	15.5	< 0.0094	0.8	1.0	5.9	153	7.0	7.26
M57-O	04/08/2020	Primary	104	< 2.0	75.9	171	3.9	8.0	10	< 0.0094	0.8	1.0	5.3	110	7.2	6.82
M57R-O	04/23/2020	Primary	125	< 2.0	57.2	167	2.7	--	10.3	< 0.0094	0.8	1.0	5.3	143	7.7	5.55
M58-O	04/08/2020	Primary	105	< 2.0	94.8	236	6.2	17.4	17.4	< 0.0094	0.8	1.0	5.8	142	7.3	7.13
M59-O	04/28/2020	Primary	96.6	< 2.0	58.4	157	1.7	8.0	10	< 0.0094	0.8	1.0	4.6	106	7.5	4.31
M59-O	04/28/2020	Split	92	< 6.0	57	170	1.9	8.0	10	< 0.040	0.8	1.0	4.1	98	7.9	-2.1
M59-O ⁽²⁾	06/01/2020	Primary	--	--	--	--	--	8.0	10	--	0.8	1.0	--	--	7.8	--
M59-O ⁽²⁾	06/22/2020	Primary	--	--	--	--	--	8.0	10	--	0.8	1.0	--	--	7.8	--
M60-O	04/14/2020	Primary	200	< 2.0	114	187	7.7	16.3	16.3	< 0.0094	0.8	1.0	5.8	140	7.3	5.94
M60-O	04/14/2020	Duplicate	198	< 2.0	115	184	7.7	16.3	16.3	< 0.0094	0.8	1.0	5.8	141	7.3	6.86
M60-O ⁽³⁾	05/18/2020	Primary	--	--	--	--	--	16.3	16.3	--	0.8	1.0	--	--	--	--
M60-O ⁽³⁾	06/08/2020	Primary	--	--	--	--	--	16.3	16.3	--	0.8	1.0	--	--	7.5	--
M61-LBF	04/23/2020	Primary	89.4	< 2.0	36.3	126	0.27	8.0	10	< 0.0094	0.8	1.0	4.3	99.0	7.4	2.08
M61-LBF ⁽⁴⁾	05/27/2020	Primary	--	--	--	--	--	8.0	10	--	8.0	10	--	--	7.8	--
MW-01-LBF	04/07/2020	Primary	215	< 2.0	104	187	6.6	16.1	16.1	< 0.0094	0.8	1.0	5.6	151	7.4	2.98
MW-01-O	04/20/2020	Primary	111	< 2.0	113	270	6.6	13.5	13.5	< 0.0094	0.8	1.0	5.6	139	7.8	-1.03
Arizona Aquifer Water Quality Standard ⁽¹⁾			--	--	--	--	10			1.0			--	--	--	

Notes:Detects are **bolded**.

Non-detects are reported to the laboratory method detection limit (< MDL).

AL = Alert Level

AQL = Aquifer Quality Limit

Temp APP = Temporary Aquifer Protection Permit No. 106360

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

mg/L = milligrams per liter

(1) Arizona Aquifer Water Quality Standard (AWQS), Drinking Water Standard, December 31, 2016.

(2) Verification sampling conducted on 6/1/2020 and 6/22/2020.

(3) Increased frequency monitoring conducted on 5/18/2020 and 6/8/2020. No inorganics data available for 5/18/2020 sample due to a lab preservation error.

(4) Verification sampling conducted on 5/27/2020.

TABLE 4

Q2 2020 RADIOCHEMICAL PARAMETERS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Location ID	Sample ID	Sample Type	Gross Alpha Activity			Total Uranium Isotopes ⁽¹⁾	Adjusted Gross Alpha Activity ⁽¹⁾				Gross Beta Analytes			Radium 226 + 228				Radon-222			
			pCi/L	TEMP APP AL	UIC AL		pCi/L	TEMP APP AL	TEMP APP AQL	UIC AL	pCi/L	UIC AL	UIC AQL	pCi/L	TEMP APP AL	TEMP APP AQL	UIC AL	UIC AQL	pCi/L	UIC AL	
M14-GL	04/14/2020	Primary	0.7 ± 0.3	--	15	--	--	12	15	12	15	2.1 U	--	--	0.7 U	4.0	5.0	4.0	5.0	1200.3 ± 121	--
M15-GU	04/14/2020	Primary	2.2 ± 0.4	--	15	--	--	12	15	12	15	6.3 ± 1.4	--	--	0.7 U	4.0	5.0	4.0	5.0	472.2 ± 48.4	--
M22-O	04/16/2020	Primary	1.6 ± 0.3	--	15	--	--	12	15	12	15	4.5 ± 1.2	--	--	0.8 U	4.0	5.0	4.0	5.0	1483.9 ± 149.3	--
M23-UBF	04/14/2020	Primary	5.5 ± 0.5	--	15	--	--	12	15	12	15	2.6 U	--	--	0.7 U	4.0	5.0	4.0	5.0	144.3 ± 16.3	--
M52-UBF	04/13/2020	Primary	4.9 ± 0.5	--	--	4.6 ± 0.7	0.3 ± 0.9	--	26.5	12	15	5.7 ± 1.4	18	18	0.7 U	--	17.2	4.0	5.0	94.8 ± 11.3	265
M52-UBF	04/13/2020	Split	3.67 ± 1.21	--	--	4.81 ± 0.636	0 U ± 1.37	--	26.5	12	15	4.67 ± 2.7	18	18	0.402 ± 0.261	--	17.2	4.0	5.0	84.0 ± 16.7	265
M54-LBF	04/21/2020	Primary	5.6 ± 0.5	--	--	4.7 ± 0.7	0.9 ± 0.9	--	26.5	12.9	15	6.5 ± 1.4	26	26	0.7 U	--	17.2	4.0	5.0	456.3 ± 46.6	1242
M54-O	04/21/2020	Primary	2.5 ± 0.4	--	--	3.3 ± 0.6	1.0 U	--	26.5	12.6	15	5.5 ± 1.3	28	28	0.7 U	--	17.2	4.0	4.0	2865.9 ± 287.3	8453
M55-UBF	04/08/2020	Primary	4.2 ± 0.7	15	--	--	--	26.5	--	12	15	5.0 ± 1.4	17	17	0.7 U	17.2	--	4.0	5.0	178.2 ± 19.5	394
M56-LBF	04/08/2020	Duplicate	5.7 ± 0.8	15	--	--	--	26.5	--	13.6	15	7.3 ± 1.5	22	22	0.7 U	17.2	--	4.0	5.0	456.1 ± 46.8	1152
M56-LBF	04/08/2020	Primary	6.6 ± 0.8	15	--	--	--	26.5	--	13.6	15	6.5 ± 1.4	22	22	0.7 U	17.2	--	4.0	5.0	517.9 ± 52.9	1152
M57-O	04/08/2020	Primary	10.2 ± 1	15	--	--	--	26.5	--	12	15	7.7 ± 1.4	16	16	0.7 ± 0.4	17.2	--	4.0	5.0	6954.6 ± 696.4	11180
M57R-O	04/23/2020	Primary	4.9 ± 0.5	16.9	16.8	--	--	12	--	12	15	5.2 ± 1.3	13.2	13.2	0.4 U ± 0.2	4.7	--	4.8	5	3708.5 ± 371.7	--
M58-O	04/08/2020	Primary	20.2 ± 1.4	15	--	8.8 ± 1	11.4 ± 1.7	26.5	--	15	15	17.0 ± 1.7	47	47	6.9 ± 0.6	17.2	--	13.1	13.1	2980 ± 298.9	13070
M59-O	04/28/2020	Primary	14.0 ± 1.3	15	--	1.4 ± 0.4	12.6 ± 1.4	26.5	--	15.8	15.8	11.0 ± 1.4	16	16	4.8 ± 0.7	17.2	--	6.9	6.9	827.67 ± 9.1	20462
M59-O	04/28/2020	Split	9.08 ± 1.9	15	--	2.23 ± 0.432	6.85 ± 1.95	26.5	--	15.8	15.8	1.19 U ± 2	16	16	6.34 ± 0.686	17.2	--	6.9	6.9	5050 ± 415	20462
M59-O	04/28/2020	Split	18.4 ± 1.4	15	--	3.4 ± 0.6	15 ± 1.5	26.5	--	15.8	15.8	9.1 ± 1.4	16	16	6.2 ± 0.5	17.2	--	6.9	6.9	--	20462
M60-O	04/14/2020	Primary	36.4 ± 1.4	15	--	30.4 ± 1.9	6.0 ± 2.4	26.5	--	17.4	17.4	26.6 ± 1.9	33	33	8.3 ± 0.6	17.2	--	13.9	13.9	1539.5 ± 154.9	2480
M60-O	04/14/2020	Duplicate	37.7 ± 1.4	15	--	33.8 ± 2	3.9 ± 2.4	26.5	--	17.4	17.4	26.2 ± 1.9	33	33	9.2 ± 0.6	17.2	--	13.9	13.9	1578.2 ± 158.8	2480
M60-O ⁽³⁾	05/18/2020	Primary	44.4 ± 1.6	15	--	28.6 ± 1.9	15.8 ± 2.5	26.5	--	17.4	17.4	--	33	33	--	17.2	--	13.9	13.9	--	2480
M60-O ⁽³⁾	06/08/2020	Primary	44.4 ± 1.6	15	--	29.2 ± 1.9	15.2 ± 2.5	26.5	--	17.4	17.4	--	33	33	--	17.2	--	13.9	13.9	--	2480
M61-LBF	04/23/2020	Primary	2.2 ± 0.4	15	--	--	--	26.5	--	12	15	6.0 ± 1.3	16	16	0.7 U	17.2	--	4.0	5.0	528.1 ± 53.9	5869
MW-01-LBF	04/07/2020	Primary	10.7 ± 1	15	--	--	--	26.5	--	21.1	21.1	5.9 ± 1.4	21	21	0.7 U	17.2	--	4.0	5.0	415.4 ± 42.5	2094
MW-01-O	04/20/2020	Primary	16.5 ± 0.9	15	--	10.5 ± 1.1	6.0 ± 1.4	26.5	--	21.9	21.9	15.4 ± 1.6	34	34	3.8 ± 0.4	17.2	--	14.4	14.4	3861.9 ± 387.1	15707
Arizona Aquifer Water Quality Standard ⁽²⁾			-- ⁽⁵⁾			-- ⁽⁵⁾	15				4 mrem/yr ⁽⁶⁾				5				--		

Notes:

Detects are **bolded**.

AL = Alert Level

AQL = Aquifer Quality Limit

Temp APP = Temporary Aquifer Protection Permit No. 106360

U = Analyte not detected above the Minimum Detectable Concentration (MDC U or Result U ± Uncertainty)

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

pCi/L = picocuries per liter

(1) Total uranium isotopes are analyzed and adjusted gross alpha calculated when gross alpha concentration exceeds 12 pCi/L, and always at M52-UBF, M54-LBF, and M54-O.

(2) Arizona Aquifer Water Quality Standard (AWQS), Drinking Water Standard, December 31, 2016.

(3) Increased frequency monitoring conducted on 5/18/2020 and 6/8/2020

(5) The AWQS applies to adjusted gross alpha, which equals gross alpha minus uranium isotopes.

(6) Beta speciations are performed above 50 pCi/L. All ambient results were below the speciation level.

Temporary APP AL Exceedance

TABLE 5

Q2 2020 ORGANIC PARAMETERS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Location	Sample Date	Sample Type	Benzene					Ethylbenzene					Toluene					Total Xylene					Naphthalene			Octane			Total Petroleum Hydrocarbons - Diesel	
			µg/L	TEMP APP AL	TEMP APP AQL	UIC AL	UIC AQL	µg/L	TEMP APP AL	TEMP APP AQL	UIC AL	UIC AQL	µg/L	TEMP APP AL	TEMP APP AQL	UIC AL	UIC AQL	µg/L	TEMP APP AL	TEMP APP AQL	UIC AL	UIC AQL	µg/L	UIC AL	UIC AQL	µg/L	UIC AL	UIC AQL	mg/L	UIC AL
M14-GL	04/14/2020	Primary	< 0.0941	4	5	4	5	< 0.137	560	700	560	700	0.886 J	80	1000	800	1000	< 0.174	8000	10000	8000	10000	< 1.00	--	--	< 0.566	--	--	0.0722 J	--
M15-GU	04/14/2020	Primary	< 0.0941	4	5	4	5	< 0.137	560	700	560	700	< 0.278	80	1000	800	1000	< 0.174	8000	10000	8000	10000	< 1.00	--	--	< 0.566	--	--	0.0226 J	--
M22-O	04/16/2020	Primary	< 0.0941	4	5	4	5	< 0.137	560	700	560	700	< 0.278	80	1000	800	1000	< 0.174	8000	10000	8000	10000	< 1.00	--	--	< 0.566	--	--	< 0.0222	--
M23-UBF	04/14/2020	Primary	< 0.0941	4	5	4	5	< 0.137	560	700	560	700	< 0.278	80	1000	800	1000	< 0.174	8000	10000	8000	10000	< 1.00	--	--	< 0.566	--	--	< 0.0222	--
M52-UBF	04/13/2020	Primary	< 0.0941	4	5	4	5	< 0.137	560	700	560	700	< 0.278	80	1000	800	1000	< 0.174	8000	10000	8000	10000	< 1.00	3.5	3.5	< 0.566	0.9	0.9	< 0.0222	0.28
M52-UBF	04/13/2020	Split	< 0.52	4	5	4	5	< 0.50	560	700	560	700	< 0.49	80	1000	800	1000	< 0.99	8000	10000	8000	10000	< 2.2	3.5	3.5	--	0.9	0.9	< 0.088	0.28
M54-LBF	04/21/2020	Primary	< 0.0941	4	5	4	5	< 0.137	560	700	560	700	< 0.278	80	1000	800	1000	< 0.174	8000	10000	8000	10000	< 1.00	3.5	3.5	< 0.566	0.9	0.9	< 0.0222	0.28
M54-O	04/21/2020	Primary	< 0.0941	4	5	4	5	< 0.137	560	700	560	700	< 0.278	80	1000	800	1000	< 0.174	8000	10000	8000	10000	< 1.00	3.5	3.5	< 0.566	0.9	0.9	< 0.0222	0.28
M55-UBF	04/08/2020	Primary	< 0.0941	4	--	4	5	< 0.137	560	--	560	700	< 0.278	800	--	800	1000	< 0.174	8000	--	8000	10000	< 1.00	3.5	3.5	< 0.566	0.9	0.9	< 0.0222	0.28
M56-LBF	04/08/2020	Primary	< 0.0941	4	--	4	5	< 0.137	560	--	560	700	< 0.278	800	--	800	1000	< 0.174	8000	--	8000	10000	< 1.00	3.5	3.5	< 0.566	0.9	0.9	< 0.0222	0.28
M56-LBF	04/08/2020	Duplicate	< 0.0941	4	--	4	5	< 0.137	560	--	560	700	< 0.278	800	--	800	1000	< 0.174	8000	--	8000	10000	< 1.00	3.5	3.5	< 0.566	0.9	0.9	< 0.0222	0.28
M57-O	04/08/2020	Primary	< 0.0941	4	--	4	5	< 0.137	560	--	560	700	0.496 J	800	--	800	1000	< 0.174	8000	--	8000	10000	< 1.00	3.5	3.5	< 0.566	0.9	0.9	< 0.0222	0.28
M57R-O	04/23/2020	Primary	< 0.0941	4	--	4	5	< 0.137	560	--	560	700	< 0.278	800	--	800	1000	< 0.174	8000	--	8000	10000	< 1.00	--	--	< 0.566	--	--	0.174	--
M58-O	04/08/2020	Primary	< 0.0941	4	--	4	5	< 0.137	560	--	560	700	< 0.278	800	--	800	1000	< 0.174	8000	--	8000	10000	< 1.00	3.5	3.5	< 0.566	0.9	0.9	< 0.0222	0.28
M59-O	04/28/2020	Primary	< 0.0941	4	--	4	5	< 0.137	560	--	560	700	0.601 J	800	--	800	1000	< 0.174	8000	--	8000	10000	< 1.00	3.5	3.5	< 0.566	0.9	0.9	0.907	0.28
M59-O	04/28/2020	Split	< 0.52	4	--	4	5	< 0.50	560	--	560	700	< 0.49	800	--	800	1000	< 0.99	8000	--	8000	10000	< 2.2	3.5	3.5	--	0.9	0.9	0.096 J	0.28
M59-O ⁽¹⁾	06/22/2020	Primary	--	4	--	4	5	--	560	--	560	700	--	800	--	800	1000	--	8000	--	8000	10000	--	3.5	3.5	--	0.9	0.9	< 0.0222	0.28
M60-O	04/14/2020	Primary	< 0.0941	4	--	4	5	< 0.137	560	--	560	700	< 0.278	800	--	800	1000	< 0.174	8000	--	8000	10000	< 1.00	3.5	3.5	< 0.566	0.9	0.9	< 0.0222	0.28
M60-O	04/14/2020	Duplicate	< 0.0941	4	--	4	5	< 0.137	560	--	560	700	< 0.278	800	--	800	1000	< 0.174	8000	--	8000	10000	< 1.00	3.5	3.5	< 0.566	0.9	0.9	0.0268 J	0.28
M61-LBF	04/23/2020	Primary	< 0.0941	4	--	4	5	< 0.137	560	--	560	700	< 0.278	800	--	800	1000	< 0.174	8000	--	8000	10000	< 1.00	3.5	3.5	< 0.566	0.9	0.9	1.08	0.28
M61-LBF ⁽²⁾	05/27/2020	Primary	--	4	--	4	5	--	560	--	560	700	--	800	--	800	1000	--	8000	--	8000	10000	--	3.5	3.5	--	0.9	0.9	< 0.0222	0.28
MW-01-LBF	04/07/2020	Primary	< 0.0941	4	--	4	5	< 0.137	560	--	560	700	< 0.278	800	--	800	1000	< 0.174	8000	--	8000	10000	< 1.00	3.5	3.5	< 0.566	0.9	0.9	< 0.0222	0.28
MW-01-O	04/20/2020	Primary	< 0.0941	4	--	4	5	< 0.137	560	--	560	700	< 0.278	800	--	800	1000	< 0.174	8000	--	8000	10000	< 1.00	3.5	3.5	< 0.566	0.9	0.9	< 0.0222	0.28
Arizona Aquifer																														

TABLE 6

Q2 2020 TRACE METALS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Location	Sample Date	Sample Type	Dissolved Aluminum			Dissolved Antimony				Dissolved Arsenic				Dissolved Barium				Dissolved Beryllium							
			mg/L	TEMP AL	UIC AL	mg/L	TEMP AL	TEMP AQL	UIC AL	UIC AQL	mg/L	TEMP AL	TEMP AQL	UIC AL	UIC AQL	mg/L	TEMP AL	TEMP AQL	UIC AL	UIC AQL	mg/L	TEMP AL	TEMP AQL	UIC AL	UIC AQL
M14-GL	04/14/2020	Primary	< 0.0081	0.71	0.71	< 0.000077	0.0048	0.006	0.0048	0.006	0.00052	0.026	0.05	0.026	0.05	0.016	1.6	2.0	1.6	2.0	< 0.000054	0.0032	0.004	0.0032	0.004
M15-GU	04/14/2020	Primary	< 0.0081	0.71	0.71	< 0.000077	0.0048	0.006	0.0048	0.006	0.0012	0.026	0.05	0.026	0.05	0.0041	1.6	2.0	1.6	2.0	< 0.000054	0.0032	0.0043	0.0032	0.004
M22-O	04/16/2020	Primary	< 0.0081	0.71	0.71	< 0.000077	--	0.0076	0.0048	0.006	< 0.00014	0.026	0.05	0.026	0.05	0.0028	1.6	2.0	1.6	2.0	< 0.000054	0.032	0.004	0.0032	0.004
M23-UBF	04/14/2020	Primary	< 0.0081	0.71	0.71	< 0.000077	0.0048	0.006	0.0048	0.006	0.0019	0.026	0.05	0.026	0.05	0.066	1.6	2.0	1.6	2.0	< 0.000054	0.0032	0.004	0.0032	0.004
M52-UBF	04/13/2020	Primary	< 0.0081	0.16	0.16	< 0.000077	0.0048	0.006	0.0048	0.006	0.0024	0.26	0.05	0.026	0.05	0.049	1.6	2.0	1.6	2.0	< 0.000054	0.0032	0.004	0.0032	0.004
M52-UBF	04/13/2020	Split	< 0.060	0.16	0.16	0.00011 J	0.0048	0.006	0.0048	0.006	0.0023	0.26	0.05	0.026	0.05	0.051	1.6	2.0	1.6	2.0	< 0.000074	0.0032	0.004	0.0032	0.004
M54-LBF	04/21/2020	Primary	< 0.0081	0.16	0.16	< 0.000077	0.0048	0.006	0.0048	0.006	0.0018	0.026	0.05	0.026	0.05	0.054	1.6	2.0	1.6	2.0	< 0.000054	0.0032	0.004	0.0032	0.004
M54-O	04/21/2020	Primary	< 0.0081	0.16	0.16	< 0.000077	0.0048	0.006	0.0048	0.006	0.0012	0.026	0.05	0.026	0.05	0.0086	1.6	2.0	1.6	2.0	< 0.000054	0.0032	0.004	0.0032	0.004
M55-UBF	04/08/2020	Primary	< 0.0081	0.16	0.16	< 0.000077	0.0048	--	0.0048	0.006	0.0018	0.026	--	0.026	0.05	0.057	1.6	--	1.6	2.0	< 0.000054	0.0032	--	0.0032	0.004
M56-LBF	04/08/2020	Primary	< 0.0081	0.16	0.16	< 0.000077	0.0048	--	0.0048	0.006	0.00069	0.026	--	0.026	0.05	0.073	1.6	--	1.6	2.0	< 0.000054	0.0032	--	0.0032	0.004
M56-LBF	04/08/2020	Duplicate	< 0.0081	0.16	0.16	< 0.000077	0.0048	--	0.0048	0.006	0.00070	0.026	--	0.026	0.05	0.076	1.6	--	1.6	2.0	< 0.000054	0.0032	--	0.0032	0.004
M57-O	04/08/2020	Primary	< 0.0081	0.16	0.16	< 0.000077	0.0048	--	0.0048	0.006	0.00088	0.026	--	0.026	0.05	0.015	1.6	--	1.6	2.0	< 0.000054	0.0032	--	0.0032	0.004
M57R-O	04/23/2020	Primary	< 0.0081	0.16	0.16	< 0.000077	0.0048	--	0.0048	0.006	0.0026	0.026	--	0.026	0.05	0.021	1.6	--	1.6	2.0	< 0.000054	0.0032	--	0.0032	0.004
M58-O	04/08/2020	Primary	< 0.0081	0.16	0.16	< 0.000077	0.0048	--	0.0048	0.006	0.0021	0.026	--	0.026	0.05	0.096	1.6	--	1.6	2.0	< 0.000054	0.0032	--	0.0032	0.004
M59-O	04/28/2020	Primary	0.017 J	0.16	0.16	< 0.000077	0.0048	--	0.0048	0.006	0.0016	0.026	--	0.026	0.05	0.12	1.6	--	1.6	2.0	< 0.000054	0.0032	--	0.0032	0.004
M59-O	04/28/2020	Split	0.075 J	0.16	0.16	< 0.000043	0.0048	--	0.0048	0.006	0.0015	0.026	--	0.026	0.05	0.12	1.6	--	1.6	2.0	< 0.000074	0.0032	--	0.0032	0.004
M60-O	04/14/2020	Primary	0.017 J	0.16	0.16	< 0.000077	0.0048	--	0.0048	0.006	0.00092	0.026	--	0.026	0.05	0.043	1.6	--	1.6	2.0	< 0.000054	0.0032	--	0.0032	0.004
M60-O	04/14/2020	Duplicate	< 0.0081	0.16	0.16	< 0.000077	0.0048	--	0.0048	0.006	0.00092	0.026	--	0.026	0.05	0.042	1.6	--	1.6	2.0	< 0.000054	0.0032	--	0.0032	0.004
M61-LBF	04/23/2020	Primary	< 0.0081	0.16	0.16	< 0.000077	0.0048	--	0.0048	0.006	0.0017	0.026	--	0.026	0.05	0.088	1.6	--	1.6	2.0	< 0.000054	0.0032	--	0.0032	0.004
MW-01-LBF	04/07/2020	Primary	< 0.0081	0.16	0.16	0.000081 J	0.0048	--	0.0048	0.006	0.0012	0.026	--	0.026	0.05	0.044	1.6	--	1.6	2.0	< 0.000054	0.0032	--	0.0032	0.004
MW-01-O	04/20/2020	Primary	< 0.0081	0.16	0.16	< 0.000077	0.0048	--	0.0048	0.006	0.0011	0.026	--	0.026	0.05	0.032	1.6	--	1.6	2.0	< 0.000054	0.0032	--	0.0032	0.004

Arizona Aquifer Water Quality Standard ⁽¹⁾**Notes:**Detects are **bolded**.

Non-detects are reported to the laboratory method detection limit (< MDL).

AL = Alert level

AQL = Aquifer Quality Limit

J = estimated value

mg/L = milligrams per liter

Temp APP = Temporary Aquifer Protection Permit No. 106360

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

(1) Arizona Aquifer Water Quality Standard (AWQS), Drinking Water Standard, Dec 31, 2016.

(2) Total (i.e. non-speciated) dissolved chromium

TABLE 6

Q2 2020 TRACE METALS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Location	Sample Date	Sample Type	Dissolved Cadmium					Dissolved Chromium ⁽²⁾					Dissolved Cobalt			Dissolved Copper				Dissolved Iron			Dissolved Lead				
			mg/L	TEMP AL	TEMP AQL	UIC AL	UIC AQL	mg/L	TEMP AL	TEMP AQL	UIC AL	UIC AQL	mg/L	TEMP AL	UIC AL	UIC AQL	mg/L	TEMP AL	UIC AL	mg/L	TEMP AL	UIC AL	mg/L	TEMP AQL	UIC AL	UIC AQL	
M14-GL	04/14/2020	Primary	< 0.000030	0.004	0.005	0.004	0.005	0.0015	0.08	0.1	0.08	0.1	< 0.000085	0.005	0.005	0.0043	0.51	0.51	--	0.029 J	2.2	2.2	0.000065 J	0.04	0.05	0.04	0.05
M15-GU	04/14/2020	Primary	< 0.000030	--	0.02	--	0.02	0.0022	0.08	0.1	0.08	0.1	0.00021 J	0.005	0.005	0.00071 J	0.51	0.51	--	0.014 J	2.2	2.2	< 0.000046	0.04	0.05	0.04	0.05
M22-O	04/16/2020	Primary	< 0.000030	--	0.02	--	0.02	0.00099	0.08	0.1	0.08	0.1	< 0.000085	0.005	0.005	< 0.00043	0.51	0.51	--	0.061	2.2	2.2	< 0.000046	0.04	0.05	0.04	0.05
M23-UBF	04/14/2020	Primary	< 0.000030	0.004	0.005	0.004	0.005	0.0011	0.08	0.1	0.08	0.1	< 0.000085	0.005	0.005	0.00049 J	0.51	0.51	--	0.014 J	2.2	2.2	< 0.000046	0.04	0.05	0.04	0.05
M52-UBF	04/13/2020	Primary	< 0.000030	0.004	0.005	0.004	0.005	0.00072	0.08	0.1	0.08	0.1	< 0.000085	0.002	0.002	0.00046 J	0.8	0.8	1.0	< 0.012	1.4	0.24	0.00019	0.04	0.05	0.04	0.05
M52-UBF	04/13/2020	Split	< 0.000023	0.004	0.005	0.004	0.005	0.00087 J	0.08	0.1	0.08	0.1	< 0.000063	0.002	0.002	< 0.00033	0.8	0.8	1.0	< 0.030	1.4	0.24	< 0.00022	0.04	0.05	0.04	0.05
M54-LBF	04/21/2020	Primary	< 0.000030	0.004	0.005	0.004	0.005	0.0016	0.08	0.1	0.08	0.1	< 0.000085	0.002	0.002	0.00052 J	0.8	0.8	1.0	0.022 J	1.4	0.24	< 0.000046	0.04	0.05	0.04	0.05
M54-O	04/21/2020	Primary	< 0.000030	0.004	0.005	0.004	0.005	0.0012	0.08	0.1	0.08	0.1	0.00017 J	0.002	0.002	0.00084 J	0.8	0.8	1.0	0.014 J	1.4	0.89	< 0.000046	0.04	0.05	0.04	0.05
M55-UBF	04/08/2020	Primary	< 0.000030	0.004	--	0.004	0.005	0.0011	0.08	--	0.08	0.1	< 0.000085	0.002	0.002	< 0.00043	0.8	0.8	1.0	< 0.012	1.4	0.24	< 0.000046	0.04	--	0.04	0.05
M56-LBF	04/08/2020	Primary	< 0.000030	0.004	--	0.004	0.005	0.00058	0.08	--	0.08	0.1	< 0.000085	0.002	0.002	< 0.00043	0.8	0.8	1.0	< 0.012	1.4	0.24	< 0.000046	0.04	--	0.04	0.05
M56-LBF	04/08/2020	Duplicate	< 0.000030	0.004	--	0.004	0.005	0.00053	0.08	--	0.08	0.1	< 0.000085	0.002	0.002	0.0038	0.8	0.8	1.0	< 0.012	1.4	0.24	0.00016	0.04	--	0.04	0.05
M57-O	04/08/2020	Primary	0.000085	0.004	--	0.004	0.005	0.0024	0.08	--	0.08	0.1	< 0.000085	0.002	0.002	0.0068	0.8	0.8	1.0	< 0.012	1.4	0.24	< 0.000046	0.04	--	0.04	0.05
M57R-O	04/23/2020	Primary	< 0.000030	0.004	--	0.004	0.005	0.0065	0.08	--	0.08	0.1	0.00045 J	0.0009	0.0009	0.0013	0.8	0.8	--	0.092	0.24	0.24	0.00014	0.04	--	0.04	0.05
M58-O	04/08/2020	Primary	< 0.000030	0.004	--	0.004	0.005	0.0032	0.08	--	0.08	0.1	0.00093	0.002	0.002	0.0011	0.8	0.8	1.0	< 0.012	1.4	0.24	< 0.000046	0.04	--	0.04	0.05
M59-O	04/28/2020	Primary	< 0.000030	0.004	--	0.004	0.005	0.0013	0.08	--	0.08	0.1	< 0.000085	0.002	0.002	0.0049	0.8	0.8	1.0	0.15	1.4	0.24	< 0.000046	0.04	--	0.04	0.05
M59-O	04/28/2020	Split	0.000030 J	0.004	--	0.004	0.005	0.0013	0.08	--	0.08	0.1	< 0.000063	0.002	0.002	0.0053	0.8	0.8	1.0	0.15	1.4	0.24	< 0.00022	0.04	--	0.04	0.05
M60-O	04/14/2020	Primary	0.000042 J	0.004	--	0.004	0.005	0.0047	0.08	--	0.08	0.1	0.00046 J	0.002	0.002	0.0066	0.8	0.8	1.0	0.073	1.4	0.24	< 0.000046	0.04	--	0.04	0.05
M60-O	04/14/2020	Duplicate	0.00013	0.004	--	0.004	0.005	0.0047	0.08	--	0.08	0.1	0.00048 J	0.002	0.002	0.0068	0.8	0.8	1.0	0.077	1.4	0.24	< 0.000046	0.04	--	0.04	0.05
M61-LBF	04/23/2020	Primary	< 0.000030	0.004	--	0.004	0.005	0.0048	0.08	--	0.08	0.1	0.00014 J	0.002	0.002	< 0.00043	0.8	0.8	1.0	0.064	1.4	1.13	0.000052 J	0.04	--	0.04	0.05
MW-01-LBF	04/07/2020	Primary	< 0.000030	0.004	--	0.004	0.005	0.0016	0.08	--	0.08	0.1	0.00028 J	0.002	0.002	< 0.00043	0.8	0.8	1.0	0.18	1.4	0.24	< 0.000046	0.04	--	0.04	0.05
MW-01-O	04/20/2020	Primary	0.000099	0.004	--	0.004	0.005	0.0030	0.08	--	0.08	0.1	0.00013 J	0.002	0.002	0.0035	0.8	0.8	1.0	0.015 J	1.4	0.24	< 0.000046	0.04	--	0.04	0.05

Arizona Aquifer Water Quality Standard ⁽¹⁾

0.005

0.1

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0.05

Notes:Detects are **bolded**.

Non-detects are reported to the laboratory method detection limit (< MDL).

AL = Alert level

TABLE 6

Q2 2020 TRACE METALS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Location	Sample Date	Sample Type	Dissolved Manganese			Dissolved Mercury				Dissolved Nickel				Dissolved Selenium				Dissolved Thallium							
			mg/L	TEMP AL	UIC AL	mg/L	TEMP AL	TEMP AQL	UIC AL	UIC AQL	mg/L	TEMP AL	TEMP AQL	UIC AL	UIC AQL	mg/L	TEMP AL	TEMP AQL	UIC AL	UIC AQL	mg/L	TEMP AL	TEMP AQL	UIC AL	UIC AQL
M14-GL	04/14/2020	Primary	0.0086	0.22	0.22	0.000015	0.0016	0.002	0.0011	0.002	0.00033 J	0.08	0.1	0.08	0.1	0.00044 J	0.04	0.05	0.027	0.05	< 0.000047	0.0016	0.002	0.0016	0.002
M15-GU	04/14/2020	Primary	0.0013	0.22	0.22	0.000015	0.0016	0.002	0.0011	0.002	0.012	0.08	0.1	0.08	0.13	0.00052	0.04	0.05	0.027	0.05	< 0.000047	0.0016	0.002	0.0016	0.002
M22-O	04/16/2020	Primary	0.014	0.22	0.22	< 0.0000039	0.0016	0.002	0.0011	0.002	< 0.00015	0.08	0.1	0.08	0.1	0.0016	0.04	0.05	0.027	0.05	< 0.000047	--	0.01	--	0.01
M23-UBF	04/14/2020	Primary	0.00023 J	0.22	0.22	0.000015	0.0016	0.002	0.0011	0.002	< 0.00015	0.08	0.1	0.08	0.1	0.00069	0.04	0.05	0.027	0.05	< 0.000047	--	0.012	--	0.012
M52-UBF	04/13/2020	Primary	0.00042 J	0.52	0.04	0.000015	0.0016	0.002	0.0016	0.002	0.0012	0.08	0.1	0.08	0.1	0.0010	0.04	0.05	0.04	0.05	< 0.000047	0.0016	0.002	0.0016	0.002
M52-UBF	04/13/2020	Split	0.00037 J	0.52	0.04	< 0.000060	0.0016	0.002	0.0016	0.002	< 0.00034	0.08	0.1	0.08	0.1	0.0013	0.04	0.05	0.04	0.05	< 0.000013	0.0016	0.002	0.0016	0.002
M54-LBF	04/21/2020	Primary	< 0.00023	0.52	0.04	< 0.0000039	0.0016	0.002	0.0016	0.002	0.00052	0.08	0.1	0.08	0.1	0.00075	0.04	0.05	0.04	0.05	< 0.000047	0.0016	0.002	0.0016	0.002
M54-O	04/21/2020	Primary	0.010	0.52	0.3	0.000012	0.0016	0.002	0.0016	0.002	0.0061	0.08	0.1	0.08	0.1	0.00058	0.04	0.05	0.04	0.05	< 0.000047	0.0016	0.002	0.0016	0.002
M55-UBF	04/08/2020	Primary	< 0.00023	0.52	0.29	< 0.0000039	0.0016	--	0.0016	0.002	0.00067	0.08	--	0.08	--	0.00074	0.04	--	0.04	0.05	< 0.000047	0.0016	--	0.0016	0.002
M56-LBF	04/08/2020	Primary	0.0040	0.52	0.42	< 0.0000039	0.0016	--	0.0016	0.002	0.0011	0.08	--	0.08	--	0.00059	0.04	--	0.04	0.05	< 0.000047	0.0016	--	0.0016	0.002
M56-LBF	04/08/2020	Duplicate	0.0039	0.52	0.42	< 0.0000039	0.0016	--	0.0016	0.002	0.00059	0.08	--	0.08	--	0.00059	0.04	--	0.04	0.05	< 0.000047	0.0016	--	0.0016	0.002
M57-O	04/08/2020	Primary	0.0013	0.52	0.04	< 0.0000039	0.0016	--	0.0016	0.002	< 0.00015	0.08	--	0.08	--	0.00085	0.04	--	0.04	0.05	< 0.000047	0.0016	--	0.0016	0.002
M57R-O	04/23/2020	Primary	0.0033	0.082	0.04	< 0.0000039	0.0016	--	0.0016	0.002	0.022	0.08	--	0.08	0.1	0.0013	0.04	--	0.04	0.05	< 0.000047	0.0016	--	0.0016	0.002
M58-O	04/08/2020	Primary	0.0057	0.52	0.04	< 0.0000039	0.0016	--	0.0016	0.002	0.044	0.08	--	0.08	--	0.0010	0.04	--	0.04	0.05	< 0.000047	0.0016	--	0.0016	0.002
M59-O	04/28/2020	Primary	0.0016	0.52	0.05	< 0.0000039	0.0016	--	0.0016	0.002	0.00029 J	0.08	--	0.08	--	0.0021	0.04	--	0.04	0.05	< 0.000047	0.0016	--	0.0016	0.002
M59-O	04/28/2020	Split	0.0016 J	0.52	0.05	< 0.000060	0.0016	--	0.0016	0.002	< 0.00034	0.08	--	0.08	--	0.0025	0.04	--	0.04	0.05	0.000059 J	0.0016	--	0.0016	0.002
M60-O	04/14/2020	Primary	0.0022	0.52	0.07	0.000012	0.0016	--	0.0016	0.002	0.028	0.2	--	0.2	--	0.00068	0.04	--	0.04	0.05	< 0.000047	0.0016	--	0.0016	0.002
M60-O	04/14/2020	Duplicate	0.0023	0.52	0.07	0.000014	0.0016	--	0.0016	0.002	0.029	0.2	--	0.2	--	0.00066	0.04	--	0.04	0.05	< 0.000047	0.0016	--	0.0016	0.002
M61-LBF	04/23/2020	Primary	0.0010	0.52	0.18	< 0.0000039	0.0016	--	0.0016	0.002	0.0079	0.08	--	0.08	--	0.00088	0.04	--	0.04	0.05	< 0.000047	0.0016	--	0.0016	0.002
MW-01-LBF	04/07/2020	Primary	0.0024	0.52	0.23	0.0000050 J	0.0016	--	0.0016	0.002	0.011	0.08	--	0.08	--	0.00063	0.04	--	0.04	0.05	< 0.000047	0.0016	--	0.0016	0.002
MW-01-O	04/20/2020	Primary	0.00048 J	0.52	0.06	0.0000080 J	0.0016	--	0.0016	0.002	0.0036	0.08	--	0.08	--	0.0021	0.04	--	0.04	0.05	< 0.000047	0.0016	--	0.0016	0.002

Arizona Aquifer Water Quality Standard ⁽¹⁾**Notes:**Detects are **bolded**.

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AL = Alert level

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J = estimated value

mg/L = milligrams per liter

Temp APP = Temporary Aquifer Protection Permit No. 106360

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

(1) Arizona Aquifer Water Quality Standard (AWQS), Drinking Water Standard, Dec 31, 2016.

(2) Total (i.e. non-speciated) dissolved chromium

TABLE 6

Q2 2020 TRACE METALS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Location	Sample Date	Sample Type	Total Uranium			Dissolved Zinc		
			mg/L	TEMP AL	UIC AL	mg/L	TEMP AL	UIC AL
M14-GL	04/14/2020	Primary	0.00069	--	--	0.0031 J	2.5	2.5
M15-GU	04/14/2020	Primary	0.0031	--	--	0.0043 J	2.5	2.5
M22-O	04/16/2020	Primary	0.0028	--	--	0.0027 J	2.5	2.5
M23-UBF	04/14/2020	Primary	0.0058	--	--	< 0.0024	2.5	2.5
M52-UBF	04/13/2020	Primary	0.0045	--	0.0081	< 0.0024	4.0	4.0
M52-UBF	04/13/2020	Split	0.0080	--	0.0081	< 0.0031	4.0	4.0
M54-LBF	04/21/2020	Primary	0.0043	--	0.0118	< 0.0024	4.0	4.0
M54-O	04/21/2020	Primary	0.0037	--	0.0193	< 0.0024	4.0	4.0
M55-UBF	04/08/2020	Primary	0.0040	--	0.0098	< 0.0024	4.0	4.0
M56-LBF	04/08/2020	Primary	0.0067	--	0.0148	< 0.0024	4.0	4.0
M56-LBF	04/08/2020	Duplicate	0.0065	--	0.0148	< 0.0024	4.0	4.0
M57-O	04/08/2020	Primary	0.0075	--	0.0135	< 0.0024	4.0	4.0
M57R-O	04/23/2020	Primary	0.0061	--	--	< 0.0024	4.0	4.0
M58-O	04/08/2020	Primary	0.0099	--	0.1341	< 0.0024	4.0	4.0
M59-O	04/28/2020	Primary	0.0033	0.16	0.0052	0.0025 J	4.0	4.0
M59-O	04/28/2020	Split	0.0037	0.16	0.0052	< 0.0031	4.0	4.0
M60-O	04/14/2020	Primary	0.047	0.16	0.0612	< 0.0024	4.0	4.0
M60-O	04/14/2020	Duplicate	0.043	0.16	0.0612	0.0044 J	4.0	4.0
M61-LBF	04/23/2020	Primary	0.0010	0.16	0.0041	< 0.0024	4.0	4.0
MW-01-LBF	04/07/2020	Primary	0.0097	0.16	0.0154	0.0096	5.6	4.6
MW-01-O	04/20/2020	Primary	0.011	0.16	0.033	0.0025 J	4.0	4.0
Arizona Aquifer Water Quality Standard ⁽¹⁾			--	--	--	--	--	--

Notes:Detects are **bolded**.

Non-detects are reported to the laboratory method detection limit (< MDL).

AL = Alert level

AQL = Aquifer Quality Limit

J = estimated value

mg/L = milligrams per liter

Temp APP = Temporary Aquifer Protection Permit No. 106360

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

(1) Arizona Aquifer Water Quality Standard (AWQS), Drinking Water Standard, Dec 31, 2016.

(2) Total (i.e. non-speciated) dissolved chromium

APPENDIX A

Data Quality Assurance/Quality Control Summary Memorandum



HALEY & ALDRICH, INC.
One Arizona Center
400 E. Van Buren St., Suite 545
Phoenix, AZ 85004
602.760.2450

MEMORANDUM

22 July 2020
File No. 133887-004

TO: Haley & Aldrich, Inc.
Sarah Cooper, P.E.

FROM: Haley & Aldrich, Inc.
Alexis Rainery, Engineer
Katherine Miller, Project Manager

SUBJECT: Appendix A – Data Quality Assurance/Quality Control Summary

Analytical results for environmental samples collected during the second quarter 2020 compliance monitoring event were verified in accordance with guidance provided by the U.S. Environmental Protection Agency [USEPA], 2012]¹. For each laboratory data package, the following quality control/quality assurance criteria from the analysis of the project samples were reviewed:

- Completeness with the chain of custody (COC);
- Comparison of reporting limits to alert levels (AL) and aquifer quality limits (AQL);
- Holding times/preservation;
- Blank sample analysis;
- Surrogate recovery compliance;
- Laboratory control samples;
- Matrix spike samples;
- Laboratory and field duplicate sample analysis; and
- Verification of laboratory report data.

Sample data was qualified by the laboratory in accordance with laboratory standard operating procedures (SOP). Based on a check of the data qualifiers assigned to the project sample results, these flags were applied to the reported results in accordance with the laboratory-specific SOP.

¹ USEPA, 2012. USEPA Region 9 Guidance for Quality Assurance Program Plans, R9QA/03.2. March.

COMPLETENESS WITH CHAIN OF CUSTODY

Samples were collected, preserved, and shipped following standard COC protocol. Samples were also received appropriately, identified correctly, and analyzed according to the COC. COCs were appropriately signed and dated by the field and/or laboratory personnel. The following exceptions were noted:

- In all SDGs, samples were not properly identified as received by Radiation Safety Engineering, Inc. via their signature on the COC.
- Laboratory report 10516183 was revised on 1 June 2020 to include the re-analysis of SM 8015D for sample M59-O-042820.
- For laboratory report 550-140760-1, M52-UBF-0413620 was reported under two lab sample IDs.
- For laboratory report 550-141422-1, M59-O-042820 was reported under two lab sample IDs.
- For laboratory report 550-121422-1, the provided trip blank was not analyzed.
- For laboratory report 10518991, 10519426, 1052244, 10518991, and 10522442, the provided trip blank was not analyzed because there were no volatile organic compounds being analyzed.

REPORTING LIMITS

The reporting limits and/or method detection limits were at or below the applicable ALs and AQLs.

HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified as per each method's protocol with the following exceptions:

- All samples analyzed for pH by USEPA Method 150.1 were analyzed outside the hold time by the laboratory per client request.

Laboratory Report	Method	Matrix	Holding Time	Preservation	Sample ID, Violation, Qualification
10514362	SM 8015D	Water	7 days for extraction; 40 days after extraction for analysis.	Cool to ≤ 6 °C	The following sample was analyzed outside the extraction holding time: M58-O-040820 pH met requirements to extend holding time.
10516183	SM 8015 D	Water	7 days for extraction; 40 days after extraction for analysis.	Cool to ≤ 6 °C	The following sample was analyzed outside the extraction holding time due to laboratory error: M59-O-042820 Well was resampled on 22 July 2020 and analyzed within hold time.

Laboratory Report	Method	Matrix	Holding Time	Preservation	Sample ID, Violation, Qualification
10518991	USEPA 200.8	Water	180 days	Cool to $\leq 6^{\circ}\text{C}$	The cooler containing the following sample was received warm at 19.1°C : M60-O-051820
10522442	All	Water	Various	Cool to $\leq 6^{\circ}\text{C}$	The cooler containing the following sample was received warm at 10.5°C : M59-O-062220
Notes: $^{\circ}\text{C} = \text{degrees Celsius}$ $\text{SM} = \text{Standard Method}$ $\text{USEPA} = \text{U.S. Environmental Protection Agency}$					

BLANK SAMPLE ANALYSIS

Trip blanks are prepared when volatile analysis is requested to identify contamination that may have been introduced during transport. The analysis of the blank samples for field quality control was free of target compounds, with the following exception:

Laboratory Report	Sample ID	Analyte Detected in Trip Blank	Concentration (mg/L)	Associated Samples
10515842	TB-042320	Xylene	0.000204 J	M57R-O-042320 M61-LBF-042320
Notes: $J = \text{estimated}$ $\text{mg/L} = \text{milligrams per liter}$				

Method blank samples had no detections, indicating that no contamination from laboratory activities occurred with the following exceptions:

Laboratory Report	Sample ID	Batch ID	Analyte Detected in Method Blank	Concentration (mg/L)
10514362	M55-UBF-040820 M56-LBF-040820 DUP-040820 M57-0-040820	L1207993	C10-C28 Diesel Range	0.0453 J
10514746	M52-UBF-041320	670970	Mercury, Dissolved	0.0000050 J
		670110	Fluoride	0.0080 J
			Sulfate	1.1 J
10514866	M60-O-041420 M99-D-041420	670970	Mercury, Dissolved	0.0000050 J
		670277	Fluoride	0.013 J
			Sulfate	0.68 J

Laboratory Report	Sample ID	Batch ID	Analyte Detected in Method Blank	Concentration (mg/L)
10515615	M54-LBF-042120 M54-O-042120	671635	Fluoride	0.0090 J
10514176	MW-01-LBF-040720	671157	Mercury, Dissolved	0.0000050 J
		669894	Chromium, Dissolved	0.00023 J
		L1207512	C10-C28 Diesel Range	0.0453 J
		673242	Total Dissolved Solids	5.0 J
550-140760-1	M52-UBF-041320	208265	Sodium	0.310
		208059	Antimony	0.0000660 J
		208171	Arsenic	0.000429 J
		208541	Manganese	0.00246 J
		208541	Selenium	0.0000820 J
		208793	Mercury	0.0000641 J
10515169	M22-O-041620	670604	Fluoride	0.0070 J
10516183	M59-O-042820	673242	Total Dissolved Solids	5.0 J
550-141422-1	M59-O-042820	209155	m,p-Xylenes	0.000654 J
		209136	Total Petroleum Hydrocarbons - Diesel	0.0889 J
		209390	Manganese	0.000325 J
		209231	Specific conductance	2.14 μ mhos/cm
10518991	M60-O-051820	677887	Magnesium, Dissolved	0.011
10519426	M61-LBF-052720	677887	Magnesium, Dissolved	0.011
		678552	Total Dissolved Solids	5.0 J
		679960	Fluoride	0.043 J
10519938	M59-O-060120	679960	Fluoride	0.043 J
Notes:				
μ mhos/cm = micromhos per centimeter				
J = estimated				
mg/L = milligrams per liter				

SURROGATE RECOVERY COMPLIANCE

The percent recovery for each surrogate compound added to each project sample was determined to be within the laboratory specified quality control limits.

LABORATORY CONTROL AND MATRIX SPIKE SAMPLES

Compounds associated with the laboratory control sample and laboratory control sample duplicate and matrix spike and matrix spike duplicate analyses exhibited recoveries and relative percent differences (RPD) within the specified limits with the following exceptions:

Laboratory Report	Sample ID	Sample Type	Method	Batch ID/Parent Sample ID	Analyte	%R, RPD	Acceptable %R, RPD
10514362	M55-UBF-040820	MSD	USEPA 200.8	669283	Calcium, Dissolved	7%	70-130%
10515615	M54-LBF-042120	MS/MSD		671635	Chloride	57%/54%	90-110%
		MS/MSD			Sulfate	75%/74%	90-110%
10516183	M59-O-042820	LCS/LCS D	USEPA 8015D	L1213611	Total Petroleum Hydrocarbons - Diesel	RPD=61.6	20
10515492	MW-01-O-042020 TB-01-042020	LCS		L1211674	n-Octane	64.5%	70-130
10522442	M59-O-062220	MS/MSD		682820	Fluoride	72%/75%	90-110%

Notes:

% = percent
%R = percent recovery
LCS = laboratory control sample
LCSD = laboratory control sample duplicate
MS = matrix spike
MSD = matrix spike duplicate
RPD = relative percent difference
USEPA = U.S. Environmental Protection Agency

LABORATORY AND FIELD DUPLICATE SAMPLES

The RPDs for laboratory duplicate analysis were all below 20 percent for water (or the absolute difference rule was satisfied if detects were less than 5 times the reporting limit) with the following exception(s):

Lab Sample Number	Laboratory Duplicate Sample Client ID	Method(s)	RPD
3605584	M59-O-042820	SM 2540C	25

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The RPDs for field duplicate analysis were all below 35 percent for water (or the absolute difference rule was satisfied if detects were less than 5 times the RL) with the following exceptions:

Analyte (mg/L)	Primary Sample ID	Duplicate Sample ID	% RPD	Note
	M56-LBF-040820	DUP-040820		
Nickel, Dissolved	0.0011	0.00059	NA	Absolute difference > RL
Analyte (mg/L)	Primary Sample ID	Duplicate Sample ID	% RPD	Note
	M60-O-041420	M99-D-041420		
Cadmium, Dissolved	0.000042 J	0.00013	NA	Absolute difference > RL
Fluoride	0.17	0.41	NA	

Notes:
mg/L = milligrams per liter
NA = not applicable
RPD = relative percent difference
RL = reporting limit

Radiological: The overall variability attributable to the sampling procedure, sample matrix, and laboratory procedures was evaluated by assessing the normalized absolute difference data between the field duplicate and primary samples. All calculated differences were within matrix-specific data quality objectives.

VERIFICATION OF LABORATORY REPORT DATA

A minimum of 10 percent of the data reported by the laboratory was verified against the electronic data deliverables.

G:\Projects\Florence Copper\133887 Quarterly Monitoring\Deliverables\2Q 2020 Reports (Biennial)\2Q 2020 Temp APP Report\Attachments\APP 10 UIC 6 Quarterly Compliance Monitoring Report\Appendix A QA_QC Summary Q2_2020_D.docx

ATTACHMENT 7

Results of Monthly Lixiviant Organic Analysis

TABLE 1
MONTHLY LIXIVIANT (RAFFINATE) MONITORING RESULTS
FLORENCE COPPER INC.
FLORENCE, ARIZONA

Analyte	Units	Sample Date		
		4/23/2020	5/13/2020	6/24/2020
Benzene	mg/L	<0.0005	<0.0005	<0.0005
Ethylbenzene	mg/L	<0.0005	<0.0005	<0.0005
n-Octane	mg/L	<0.0005	<0.0005	<0.0005
Naphthalene	mg/L	<0.002	<0.002	<0.002
Toluene	mg/L	<0.0005	0.71	<0.0005
Xylenes, Total	mg/L	<0.0015	<0.0015	<0.0015
TPH-Diesel	mg/L	0.98	<1.9	2.1
Total Organics	mg/L	0.98	0.71	2.1
Maximum Allowable Average Total Organics	mg/L	10	10	10

Notes:

mg/L = milligrams per liter

TPH = total petroleum hydrocarbons

ATTACHMENT 8

Results of Mechanical Integrity Testing

Q2 2020 MECHANICAL INTEGRITY TESTS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Q2 2020 Mechanical Integrity Tests			
Well ID	Temperature Log Date	Pressure Test Date	Pass (P) Fail (F)
WB-01	6/2/2020	--	P
WB-02	6/2/2020	--	P
WB-03	6/2/2020	--	P
WB-04	6/2/2020	--	P

Notes:*Temperature log report submitted to the United States Environmental Protection Agency under separate cover.*

ATTACHMENT 9

Results of Annular Conductivity Device Monitoring



ANNULAR CONDUCTIVITY DATA QA PROCEDURE & DOCUMENTATION FORM (V.1)

GENERAL

HGI Project Name: 2018-030 – FCP Bulk & Annular Conductivity Monitoring	Project Site: Florence Copper Project	Weather Conditions: Warm, sunny, 87°F
Date April 2, 2020	Field Operator Name: J. Cain	Start and End Time: 1330
EQUIPMENT		DIAGNOSTICS (See back of sheet for detailed instructions and procedures)
AGI MiniSting (MS) Serial #: S0608049 ✓ HGI Cray Interface Panel SN# CR-ES-002 ✓	6Ω Resistor Standard Result: _____ Pass Criteria: $6.25\Omega \pm 0.30$ Circle One: Pass or Fail	<ul style="list-style-type: none"> • No. Cycles: 4 • Max Error: Off • Max Current: 50mA • Measure Time: 3.6 • Measure mode: RESISTANCE

DATA COLLECTION:

	WELL ID	Time (24h)	Current (I mA)	1			2			3			Data Acceptance Pass = P, Fail = F
				Reading	Resistance ($\Delta Y = \Omega$)	Error ($\sigma = \%$)	Reading	Resistance ($\Delta Y = \Omega$)	Error ($\sigma = \%$)	Reading	Resistance ($\Delta Y = \Omega$)	Error ($\sigma = \%$)	
1	WB-04	1432	20	310	62.45	2.2	311	62.89	2.8	312	63.00	2.7	P/F
2	WB-03	1438	20	313	76.90	0.8	314	76.74	1.7	315	76.98	1.9	P/F
3	WB-02	1444	20	316	79.25	2.4	317	79.90	2.3	318	79.66	2.4	P/F
4	WB-01	1448	20	319	52.31	0.8	320	50.87	1.3	321	50.41	1.4	P/F
5	B-01	1504	20	322	66.81	0.7	323	65.75	0.7	324	65.43	0.8	P/F
6	B-07	1509	20	325	59.39	0.6	326	58.53	0.9	327	58.19	1.0	P/F
7	B-06	1514	20	328	58.30	0.8	329	56.85	1.1	330	56.15	1.4	P/F
8	B-05	1519	20	331	86.42	0.3	332	85.57	0.4	333	85.22	0.5	P/F
9	B-04	1524	20	334	56.76	1.3	335	55.12	0.7	336	54.62	0.8	P/F
10	B-03	1531	20	337	52.68	0.8	338	51.47	0.7	339	50.95	0.8	P/F
11	B-02	1535	20	340	63.11	1.4	341	62.97	1.5	342	62.63	1.6	P/F

DATA QUALITY ACCEPTANCE

Measurement Error Evaluation
Pass Criteria: 66% (2/3) of measurement error values less than 5%

(Briefly describe site activities at time of data acquisition, status of electrode arrays, or other parameters that may influence readings)

After lifting development of well PW-08

FIELD OBSERVATIONS

By signing, I certify that data collection instrumentation pass all required tests and the data collection process followed all required programming/instrumentation listed within this procedure.

Field Operator Signature/Date

4/2/2020

By signing, I certify that measured data pass all required data quality tests listed within this procedure.

Data Inspector Signature/Date

4/3/2020

ATTACHMENT 10

Table of Monthly Casing Annulus and Injection Pressures

Q2 2020 DAILY WELLHEAD PRESSURES - INJECTION WELLS

Page 1 of 3

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 1. April 2020 Daily Wellhead Pressures - Injection Wells

Date	I-01			I-02			I-03			I-04			Fracture Gradient
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	
4/1/2020	0.00	0.00	0.00	89.71	87.53	92.35	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/2/2020	0.00	0.00	0.00	89.97	89.02	91.17	0.00	0.00	0.00	0.10	0.00	1.44	112.90
4/3/2020	0.00	0.00	0.00	89.24	80.34	92.75	0.00	0.00	0.00	0.18	0.00	3.36	112.90
4/4/2020	0.00	0.00	0.00	91.04	90.01	92.35	0.00	0.00	0.00	0.62	0.00	3.36	112.90
4/5/2020	0.00	0.00	0.00	87.90	47.85	92.66	0.00	0.00	0.00	0.70	0.00	3.73	112.90
4/6/2020	0.00	0.00	0.00	90.01	78.70	94.73	0.00	0.00	0.00	52.80	0.00	58.87	112.90
4/7/2020	0.00	0.00	0.00	90.24	89.51	92.50	0.00	0.00	0.00	53.85	0.00	58.87	112.90
4/8/2020	0.00	0.00	0.00	90.29	87.38	92.71	0.00	0.00	0.00	50.23	0.00	57.65	112.90
4/9/2020	0.00	0.00	0.00	89.14	78.23	92.44	0.00	0.00	0.00	14.96	0.00	57.87	112.90
4/10/2020	0.00	0.00	0.00	89.06	86.76	91.18	0.00	0.00	0.00	0.00	0.00	0.03	112.90
4/11/2020	0.00	0.00	0.00	89.47	87.51	91.61	0.00	0.00	0.00	0.00	0.00	0.27	112.90
4/12/2020	0.00	0.00	0.00	89.92	86.96	92.41	0.00	0.00	0.00	0.00	0.00	0.20	112.90
4/13/2020	0.00	0.00	0.00	90.07	85.67	94.91	0.00	0.00	0.00	0.10	0.00	5.61	112.90
4/14/2020	0.00	0.00	0.00	86.87	0.00	91.61	0.00	0.00	0.00	0.05	0.00	1.63	112.90
4/15/2020	0.00	0.00	0.00	90.70	89.88	91.64	0.00	0.00	0.00	0.04	0.00	1.70	112.90
4/16/2020	0.00	0.00	0.00	92.13	90.24	95.07	0.00	0.00	0.00	0.00	0.00	0.03	112.90
4/17/2020	0.00	0.00	0.00	69.39	55.82	94.04	0.00	0.00	0.00	0.03	0.00	1.74	112.90
4/18/2020	0.00	0.00	0.00	66.15	57.42	68.60	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/19/2020	0.00	0.00	0.00	87.64	53.61	93.22	0.00	0.00	0.00	0.00	0.00	0.03	112.90
4/20/2020	0.00	0.00	0.00	94.76	92.29	96.89	0.00	0.00	0.00	0.02	0.00	2.36	112.90
4/21/2020	0.00	0.00	0.00	93.89	92.75	95.49	0.00	0.00	0.00	0.00	0.00	0.03	112.90
4/22/2020	0.00	0.00	0.00	93.74	92.85	95.13	0.00	0.00	0.00	0.00	0.00	0.03	112.90
4/23/2020	0.00	0.00	0.00	75.37	72.61	94.31	0.00	0.00	0.00	0.17	0.00	2.29	112.90
4/24/2020	0.00	0.00	0.00	77.58	73.89	90.75	0.00	0.00	0.00	0.18	0.00	2.47	112.90
4/25/2020	0.00	0.00	0.00	78.53	75.87	91.23	0.00	0.00	0.00	0.07	0.00	2.52	112.90
4/26/2020	0.00	0.00	0.00	80.60	78.07	96.61	0.00	0.00	0.00	0.60	0.00	3.53	112.90
4/27/2020	0.00	0.00	0.00	80.60	78.35	83.31	0.00	0.00	0.00	1.55	0.00	4.67	112.90
4/28/2020	0.00	0.00	0.00	83.78	80.81	95.81	0.00	0.00	0.00	1.85	0.00	4.88	112.90
4/29/2020	0.00	0.00	0.00	83.99	74.73	86.19	0.00	0.00	0.00	3.94	0.00	10.20	112.90
4/30/2020	0.00	0.00	0.00	60.70	1.67	81.63	0.00	0.00	0.00	3.35	0.00	8.76	112.90

Notes:

All measurements in pounds per square inch (psi)

Calculation of Pressure Allowed at the Wellhead from the Allowed Fracture Gradient

P-Wellhead = P-TOS - P-Col = [P-Frac x D-TOS] - [D-TOS / Conv] Where:

P-Fracture	= Pressure allowed at the top of the injection well screen (TOS)	=	0.65	psi/foot of depth
D-TOS	= Depth to top of injection well screens	=	520	feet
P-TOS	= Total pressure allowed at top of screen = P-Fracture x D-TOS	=	0.65 psi/foot x 520 feet	338 psi
Conv	= Feet of Water per psi	=	2.31	feet/psi
P-Col	= Pressure from weight of water column at TOS	=	520 feet / 2.31 feet/psi	225.11 psi
P-Wellhead	= Allowable pressure at the top of the wellhead = P-TOS - P-Col	=	338 psi - 255.1 psi	112.89 psi

Q2 2020 DAILY WELLHEAD PRESSURES - INJECTION WELLS

Page 2 of 3

FLORENCE COPPER INC.

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Table 2. May 2020 Daily Wellhead Pressures - Injection Wells

Date	I-01			I-02			I-03			I-04			Fracture Gradient
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	
5/1/2020	0.00	0.00	0.00	75.14	0.00	98.37	0.00	0.00	0.00	4.35	0.00	8.77	112.90
5/2/2020	0.00	0.00	0.00	86.65	77.02	99.54	0.00	0.00	0.00	5.85	0.00	10.97	112.90
5/3/2020	0.00	0.00	0.00	87.77	83.72	91.95	0.00	0.00	0.00	8.74	0.00	16.34	112.90
5/4/2020	0.00	0.00	0.00	91.18	87.84	96.97	0.00	0.00	0.00	6.98	0.00	17.89	112.90
5/5/2020	0.00	0.00	0.00	89.37	84.59	91.74	0.00	0.00	0.00	1.02	0.00	6.84	112.90
5/6/2020	0.00	0.00	0.00	13.75	0.00	91.33	0.00	0.00	0.00	0.18	0.00	8.03	112.90
5/7/2020	0.00	0.00	0.00	0.01	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/8/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/9/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/10/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/11/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/12/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/13/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/14/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/15/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/16/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/17/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	9.13	112.90
5/18/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.85	0.00	8.23	112.90
5/19/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.07	5.45	8.60	112.90
5/20/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.81	5.02	8.57	112.90
5/21/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.50	6.60	9.15	112.90
5/22/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.53	7.46	10.33	112.90
5/23/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.69	8.64	11.19	112.90
5/24/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.57	9.55	12.15	112.90
5/25/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.40	10.46	12.76	112.90
5/26/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.36	11.16	13.93	112.90
5/27/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.78	11.30	14.27	112.90
5/28/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.88	12.53	15.19	112.90
5/29/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.83	0.00	19.30	112.90
5/30/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.42	0.00	15.69	112.90
5/31/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.57	13.22	16.38	112.90

Notes:

All measurements in pounds per square inch (psi)

Calculation of Pressure Allowed at the Wellhead from the Allowed Fracture Gradient

P-Wellhead = P-TOS - P-Col = [P-Frac x D-TOS] - [D-TOS / Conv] Where:

P-Fracture	= Pressure allowed at the top of the injection well screen (TOS)	=	0.65	psi/foot of depth
D-TOS	= Depth to top of injection well screens	=	520	feet
P-TOS	= Total pressure allowed at top of screen = P-Fracture x D-TOS	=	338	psi
Conv	= Feet of Water per psi	=	2.31	feet/psi
P-Col	= Pressure from weight of water column at TOS	=	225.11	psi
P-Wellhead	= Allowable pressure at the top of the wellhead = P-TOS - P-Col	=	112.89	psi

Q2 2020 DAILY WELLHEAD PRESSURES - INJECTION WELLS

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FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 3. June 2020 Daily Wellhead Pressures - Injection Wells

Date	I-01			I-02			I-03			I-04			Fracture Gradient
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	
6/1/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.57	0.00	28.17	112.90
6/2/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.71	27.75	36.16	112.90
6/3/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.69	28.41	33.49	112.90
6/4/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.10	20.67	32.43	112.90
6/5/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.52	22.54	24.21	112.90
6/6/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.90	22.97	24.89	112.90
6/7/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.10	23.15	24.91	112.90
6/8/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.33	23.57	25.59	112.90
6/9/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.05	25.47	36.04	112.90
6/10/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.99	28.02	32.63	112.90
6/11/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.14	28.85	31.93	112.90
6/12/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.15	0.00	31.83	112.90
6/13/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.51	28.18	32.94	112.90
6/14/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.92	29.85	33.97	112.90
6/15/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.63	0.00	35.18	112.90
6/16/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.83	31.72	35.47	112.90
6/17/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.36	33.19	37.13	112.90
6/18/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.54	35.11	38.82	112.90
6/19/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.60	35.87	39.70	112.90
6/20/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.94	36.33	39.43	112.90
6/21/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.07	35.56	40.29	112.90
6/22/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.18	36.43	39.79	112.90
6/23/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.52	36.69	40.86	112.90
6/24/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.66	36.80	41.00	112.90
6/25/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.86	35.91	40.47	112.90
6/26/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.72	25.01	42.40	112.90
6/27/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.16	5.89	42.94	112.90
6/28/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.01	23.53	45.96	112.90
6/29/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46.16	32.96	48.46	112.90
6/30/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46.80	45.22	48.32	112.90

Notes:

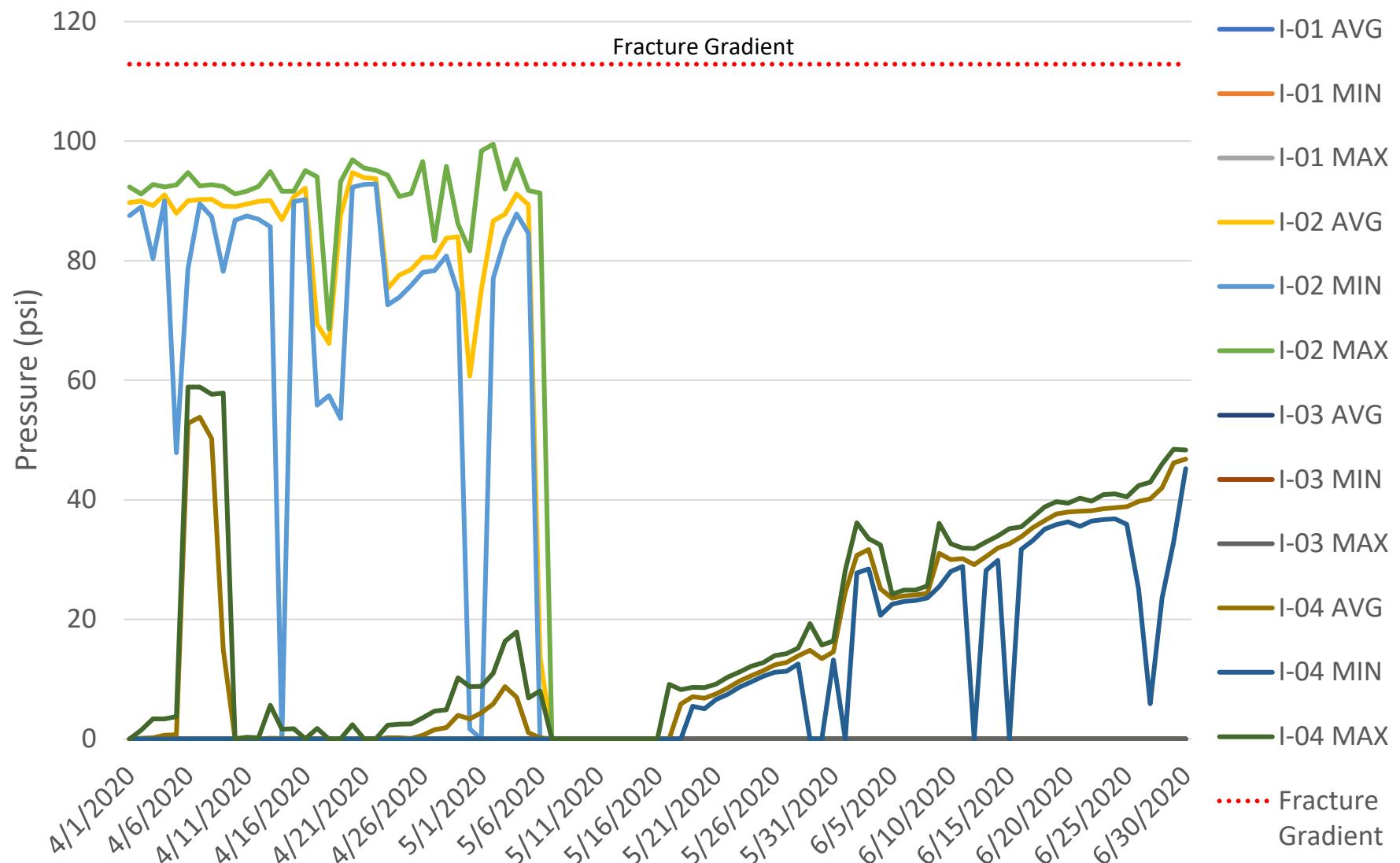
All measurements in pounds per square inch (psi)

Calculation of Pressure Allowed at the Wellhead from the Allowed Fracture Gradient

P-Wellhead = P-TOS - P-Col = [P-Frac x D-TOS] - [D-TOS / Conv] Where:

P-Fracture	= Pressure allowed at the top of the injection well screen (TOS)	=	0.65	psi/foot of depth
D-TOS	= Depth to top of injection well screens	=	520	feet
P-TOS	= Total pressure allowed at top of screen = P-Fracture x D-TOS	= 0.65 psi/foot x 520 feet	338	psi
Conv	= Feet of Water per psi	=	2.31	feet/psi
P-Col	= Pressure from weight of water column at TOS	= 520 feet / 2.31 feet/psi	225.11	psi
P-Wellhead	= Allowable pressure at the top of the wellhead = P-TOS - P-Col	= 338 psi - 255.1 psi	112.89	psi

Figure 1. Daily Wellhead Pressures - Injection Wells



Note: Daily wellhead pressures at the injection wells can shift based on changes in flow rates to an individual well and/or a focus on specific zones of the formation.

Q2 2020 DAILY CASING ANNULUS PRESSURES - INJECTION WELLS

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FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 4. April 2020 Daily Casing Annulus Pressures - Injection Wells

Date	I-01			I-02			I-03			I-04			Fracture Gradient
	Avg	Min	Max										
4/1/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/2/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/3/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/4/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/5/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/6/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/7/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/8/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/9/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/10/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/11/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/12/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/13/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/14/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/15/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/16/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/17/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/18/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/19/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/20/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/21/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/22/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/23/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/24/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/25/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/26/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/27/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/28/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/29/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
4/30/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90

Notes:

All measurements in pounds per square inch (psi)

Q2 2020 DAILY CASING ANNULUS PRESSURES - INJECTION WELLS

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FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 5. May 2020 Daily Casing Annulus Pressures - Injection Wells

Date	I-01			I-02			I-03			I-04			Fracture Gradient
	Avg	Min	Max										
5/1/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/2/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/3/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/4/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/5/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/6/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/7/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/8/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/9/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/10/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/11/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/12/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/13/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/14/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/15/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/16/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/17/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/18/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/19/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/20/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/21/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/22/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/23/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/24/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/25/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/26/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/27/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/28/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/29/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/30/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
5/31/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90

Notes:

All measurements in pounds per square inch (psi)

Q2 2020 DAILY CASING ANNULUS PRESSURES - INJECTION WELLS

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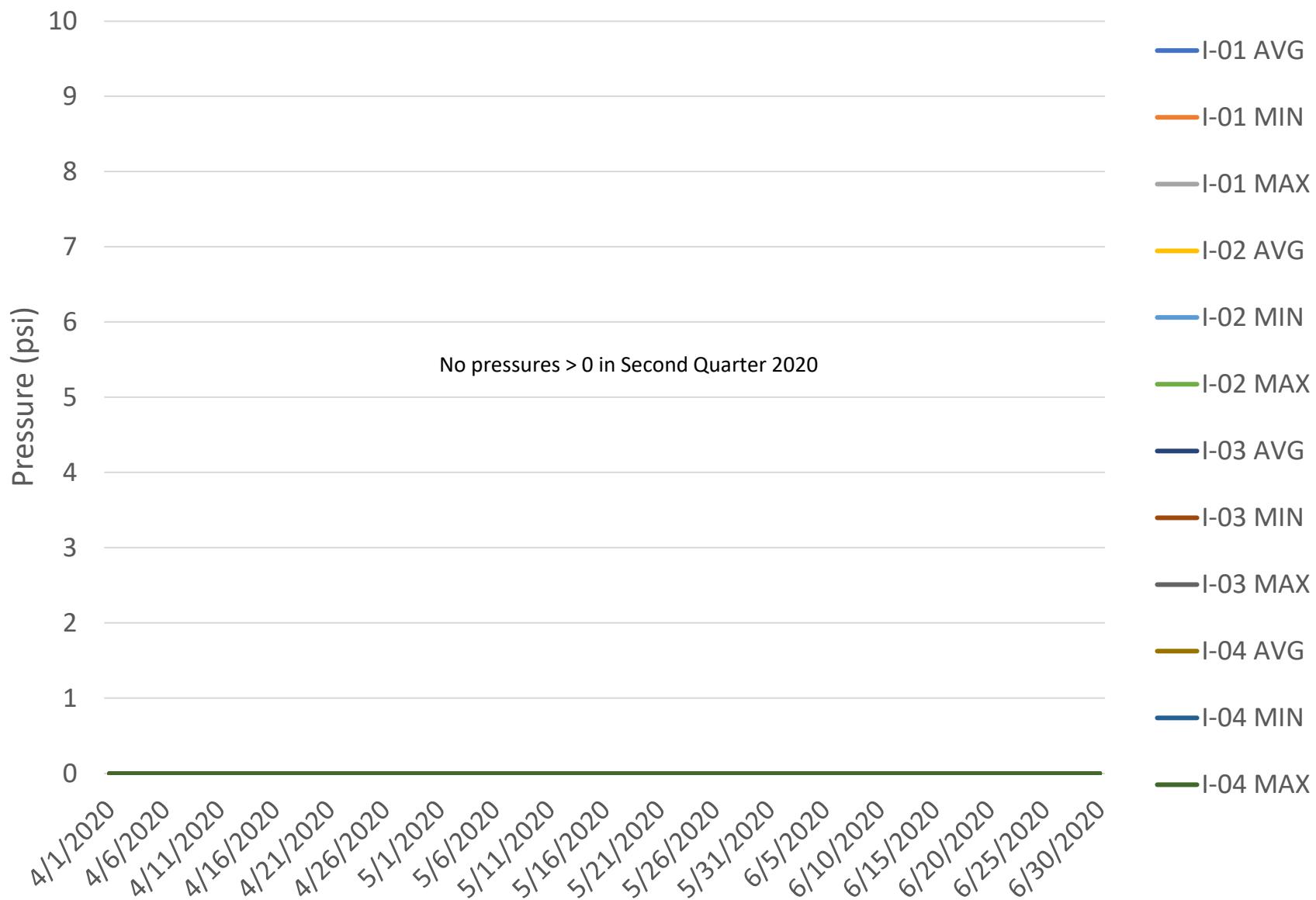
Table 6. June 2020 Daily Casing Annulus Pressures - Injection Wells

Date	I-01			I-02			I-03			I-04			Fracture Gradient
	Avg	Min	Max										
6/1/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/2/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/3/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/4/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/5/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/6/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/7/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/8/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/9/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/10/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/11/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/12/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/13/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/14/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/15/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/16/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/17/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/18/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/19/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/20/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/21/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/22/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/23/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/24/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/25/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/26/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/27/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/28/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/29/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90
6/30/2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.90

Notes:

All measurements in pounds per square inch (psi)

Figure 2. Daily Casing Annulus Pressures - Injection Wells



ATTACHMENT 11

Migratory Bird Landings

TABLE 1
Q2 2020 OBSERVED MIGRATORY BIRD LANDINGS
FLORENCE COPPER INC.
FLORENCE, ARIZONA

Date	Time	Migratory Bird Species	Comments:	Fatality (Y or N)
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Notes:

Florence Copper personnel conduct daily inspections of the Process Solution Impoundment.

No waterfowl were noted during the second quarter of 2020.